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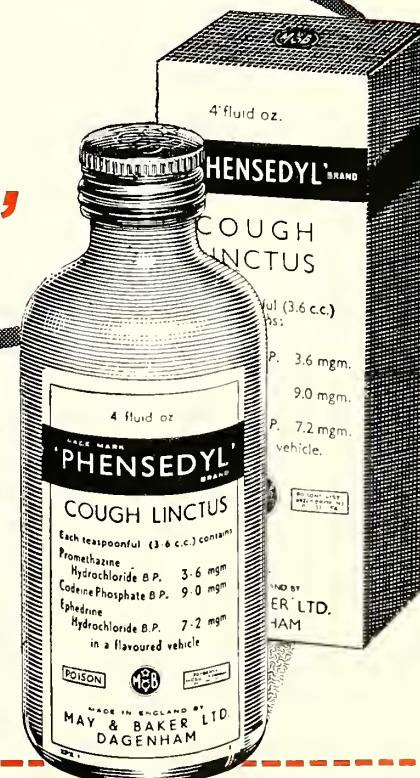
CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JANUARY 8 1955

MA.2053A

**EFFECTIVE
COUGH CONTROL
WITH 'PHENSEDYL'**
trade mark **PROMETHAZINE COUGH LINCTUS** brand



It is time once again to check your stocks of prescription products to meet the increasing demands that come with winter. This year there is one new product that you will definitely want to stock—'Phensedyl'.

'Phensedyl' is not just another cough linctus, for it contains the powerful antihistaminic and anti-emetic, promethazine—the active constituent of 'Phenergan' and 'Avomine'—plus codeine and ephedrine, drugs that are now widely accepted as effective cough suppressants. Moreover, 'Phensedyl' is attractive in appearance and pleasant to take, important features that doctors will certainly bear in mind when prescribing a cough linctus. Details of 'Phensedyl' have already been presented to general practitioners in your area, and wholesalers are now carrying stocks to meet your demands.

MANUFACTURED BY



MAY & BAKER LTD

SUPPLIES: List price*

BOTTLES OF 4 FL. OZ.	- - - - -	4s. 0d
BOTTLES OF 40 FL. OZ.	- - - - -	35s. 0d

*Usual discount and exempt from Purchase Tax

Phensedyl' is supplied on prescription only
(Poisons List Part 1, Schedules I and IV)

A NEW M&B BRAND MEDICAL PRODUCT



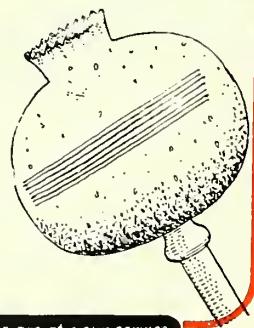
From the poppy....

OPIUM & OPIATES

In few other fields is 'know how' more important than in the production of Opium Alkaloids and related products. 'Know how' is not something new, nor is it acquired overnight. Dr. Thomas Smith, one of the founders of T. & H. Smith, Ltd., first investigated opium in the 1840's. His success in establishing production of morphine and its salts, together with technical progress since made by the company, particularly in the manufacture of special products for specific purposes, has made Opiates synonymous with Smith of Edinburgh.

APOMORPHINE
HYDROCHLORIDE
CODEINE ALKALOID
CODEINE
HYDROCHLORIDE
CODEINE PHOSPHATE
COTARNINE
ALKALOID
DIAMORPHINE
HYDROCHLORIDE
DIHYDROCODEINE
HYDROCHLORIDE
DIHYDROCODEINE
BITARTRATE
ETHYLMORPHINE
HYDROCHLORIDE
HYDROCODONE
(DIHYDROCODEINONE)
HYDROCHLORIDE

HYDROCODONE
(DIHYDROCODEINONE)
BITARTRATE
MORPHINE ALKALOID
MORPHINE SULPHATE
NARCOTINE
OPIUM
OPIUM POWDER
OXYCODONE
(DIHYDROHYDROXY-
CODEINONE)
HYDROCHLORIDE
PAPAVERINE
ALKALOID
PAPAVERINE
HYDROCHLORIDE
PHOLCODINE



Our technical resources are at your service

T. & H. SMITH LTD.
Manufacturers of Alkaloids, Fine Chemicals and Pharmaceutical Preparations
EDINBURGH



IN his Cambridge Catalogue, John Ray told of finding *Atropa belladonna* "in the lanes about Fulbourn plentifully". Later, in his English Catalogue of 1686, he observed that a belladonna leaf applied to a small abscess near the eye of "a noble lady personally known" to him had caused dilation of the pupil. Yet no interest was taken in the mydriatics for over a century, and ATROPINE itself was not known until Rudolf Brandes of Salzuffeln isolated it in an impure state in 1819.

Now, in company with those other solanaceous alkaloids HOMATROPINE, HYOSCINE and HYOSCYAMINE, it is available in a reliably pure state as one of the many chemicals supplied by Burroughs Wellcome & Co. at competitive prices. Atropine (Pure Alkaloid), B.P.; Atropine Sulphate, B.P.; Homatropine (Pure Alkaloid); Homatropine Hydrobromide, B.P.; Homatropine Hydrochloride; Homatropine Methylbromide; Hyoscine Hydrobromide; Hyoscyamine Sulphate, B.P.C.

B.W. & CO. FINE CHEMICALS



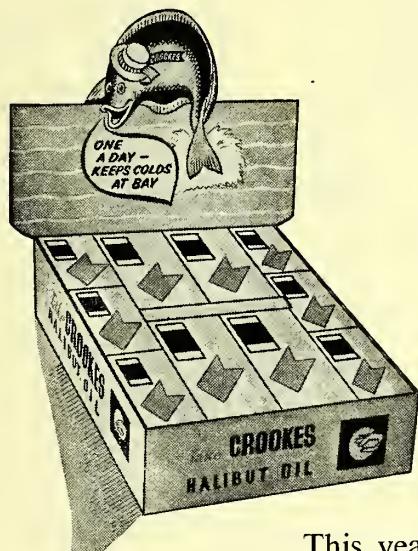
BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

ASSOCIATED HOUSES: NEW YORK · MONTREAL · SYDNEY · CAPE TOWN · BOMBAY · BUENOS AIRES · CAIRO · DUBLIN · AUCKLAND



Gentle

reminder. In the ritual of antisepsis there can be no relaxation. In the operating theatre, in the labour ward, in the first-aid post, 'DETTOL' is a constant reminder that the greatest triumph over infection still lies in its prevention.



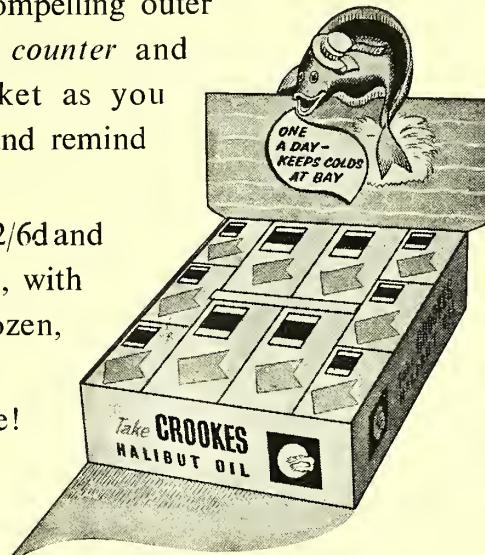
IT'S THE OUTER ON THE COUNTER THAT COUNTS

This year, more than ever, people are anxious to build up their resistance to "winter ills", and how better than by taking Crookes Halibut Oil Capsules Daily.

Display this sales compelling outer prominently *on the counter* and watch your sales rocket as you attract new customers, and remind your 'regulars'.

The 'K' parcel contains $24 \times 2/6d$ and $12 \times 8/6d$ cartons of capsules, with bonus of thirteen to the dozen, carriage paid.

Support this most popular C.F. line!



CROOKES HALIBUT OIL



DATA

THE CROOKES LABORATORIES LIMITED • PARK ROYAL • LONDON NW10

PRINTING — PLUS

that little extra Craftsmanship that makes all the difference to your finished product. Whether a Label, Carton or Booklet you will get that little extra from :

ALF. HARRISON & SONS LTD.

Carton, Medical and Advertising Printers

BURLEY ROAD, LEEDS, 4
Phone: 52668. Grams: Ideas, Leeds 4

(C&D 8 '1. 55)

ARE YOU ON THE MAP ?

CHEMIST

If your business is roughly within 100 miles of London, all the advantages of Neoflo's Rental Maintenance Plan are open to you. For a few shillings a week you can have a neon sign installed in your window immediately. *You pay no deposit and all maintenance is free.*

Thousands of shops are bringing in extra business with these attractive value-for-money signs that catch the eye and light up a whole window so effectively at the same time. Exterior box signs, fascia signs, etc., may also be obtained under the Neoflo Rental Maintenance Plan . . . or on Deferred Terms. Write or 'phone for details.

**USEFUL
GIFTS**

Window Signs :
24" by 12" - - - 6/3 p. wk.
30" by 15" - - - 8/9 p. wk.

Exterior Box Signs :
36" by 24" from 16/6 p. wk.

**FILMS
DEVELOPED**

NEOFLO SIGNS LTD

"THE FINEST SIGN SERVICE IN THE SOUTH"



HYPAK
BRAND

Nursery Bags.

CREATE RECORD SALES
FOR CHEMISTS

Hypak Nursery Bags keep Baby's feeding utensils, clothes, toys and bed linen completely protected from all germs, dust, dirt and dampness. They're ideal too for carrying soiled nappies and clothes when travelling or visiting. Mothers have been quick to realise the advantages of this new line which is marking up record sales in Chemists everywhere. Retail price is 4/9 per pack. (Inc. P.T.)

To HYPAK DIVISION of The
OPPENHEIMER CASING Co. (U.K.) Ltd.,
159-165 Harrow Road, London, W.2 Tel: PADdington 7431

As a..... (insert Retailer or Wholesaler)
I am Interested in HYPAK Nursery Bags.

Name.....

Address.....

Scottish Sales Depôt: Thornybark, Fountainbridge, Edinburgh, 3
Telephone: Fountainbridge 1403

(C&D 8 '1. 55)

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KEEP WINTER'S GRIP FROM HAND AND FOOT



PROPHYLAXIS AND TREATMENT OF

Chilblains

Sterogyl-15

VITAMIN D2 (ROUSSEL)

600,000 I. U.

60% success with 3 doses

ORAL—MASSIVE DOSE

ALCOHOLIC FOR ADULTS OILY FOR INFANTS

ROUSSEL LABORATORIES LTD, 847 HARROW ROAD, LONDON, N.W.10. LADBROKE 3608



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From the Carnegie Range of Fine Chemicals

QUININE AND
SALTS

CARNEGIES OF WELWYN LTD

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'

Telephone: WELWYN GARDEN 5001

(6 lines)

NEW UNIQUE RIBENA

Consumer Press Advertising

This is a true story!



Satisfied users tell in pictures and story why they take Ribena.

Ribena is a 'must' this winter for your customers—to protect their families from Colds and Flu.

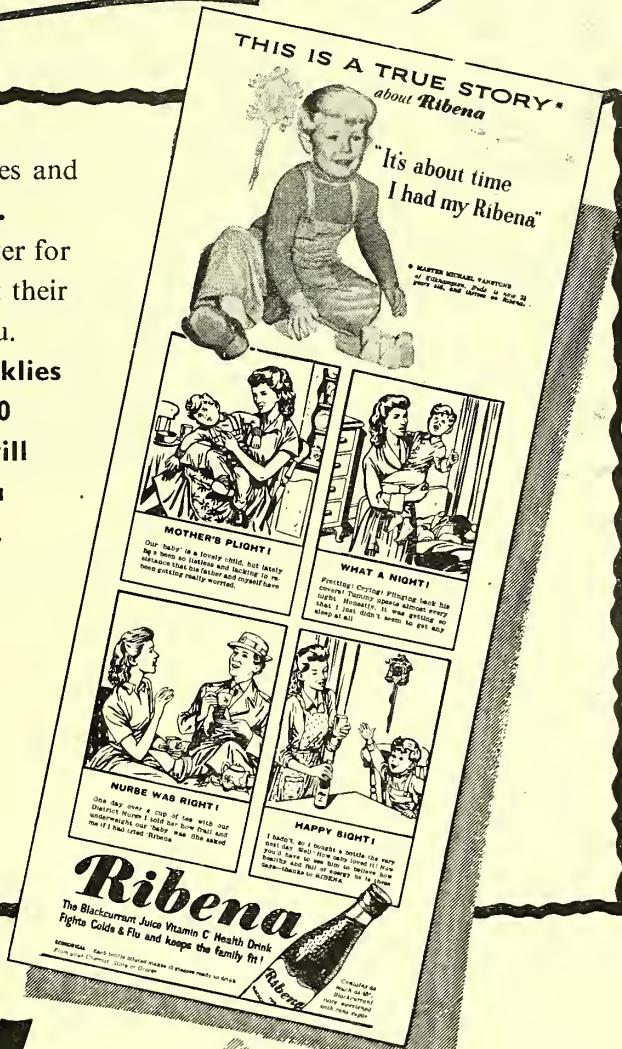
In National Dailies, Weeklies and Monthlies, 600,000,000 advertisements in 1955 will

**sell more and more RIBENA for you
...If you Display it and Recommend it.**

Are your stocks adequate if Flu develops suddenly?

Order now from your Wholesaler.

**Each bottle you sell
puts at least 8d
profit in your till**



Ribena *gives* fights *fatigue*

Write for new Counter and Window Show Card to:—

CARTERS OF COLEFORD. (Glos.) Tel: Coleford 3201-6

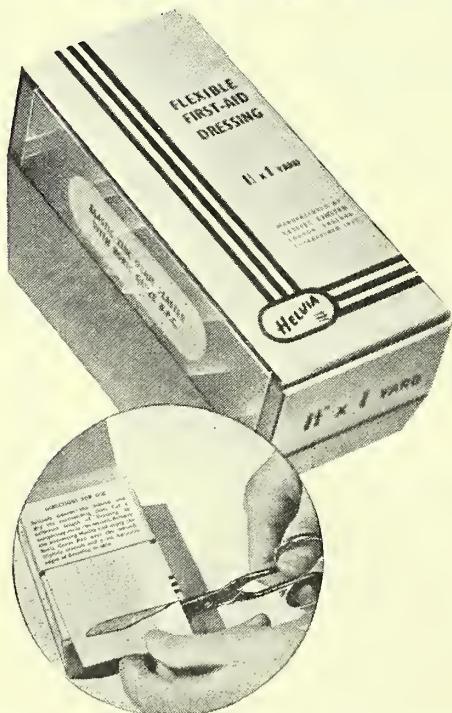


COX
for counter sales that keep custom

Available in 9 attractive
packaging styles including
Chemist's 'Own Brand' series.

ARTHUR H. COX & CO. LTD.
Manufacturing Chemists since 1839
BRIGHTON

A BETTER DRESSING IN A BETTER PACK!



HELVIA
REGD.
TRADE MARK

FLEXIBLE FIRST - AID DRESSING

Your customers won't be slow to see the advantages of this hygienic, convenient dressing in its dispenser-type pack. They can cut off as large or as small a strip as they wish—and the unused part remains clean, untouched, yet ready for use at a moment's notice. Ask your Wholesaler for stocks of HELVIA Flexible Dressing — compact, convenient, hygienic — the modern first-aid dressing.

Made up in continuous lengths of one yard in widths of $1\frac{1}{2}$, $2\frac{1}{2}$ and 3 inches—ideal for home, sport and motoring.

LESLIES LTD, WALTHAMSTOW, LONDON, E.17 *Established 1823*

FLIT

REGD. TRADE MARK

AEROSOLS

* BIG PRICE REDUCTIONS
PLUS
NATIONAL ADVERTISING!

4 OZ. SIZE
**NOW ONLY
5/3**

List Price 46/- per doz. *

6 OZ. SIZE
**NOW ONLY
6/6**

List Price 57/- per doz. *



12 OZ. SIZE
**NOW ONLY
10/6**

List Price 92/- per doz. *

* YOU GET
THE SAME
GENEROUS PROFIT
MARGIN

AND ANOTHER BIG BONUS!...

The following Parcels qualify for—

5% BONUS
4 DOZ. x 4 OZ.

OR 1 DOZ. x 4 OZ.
2 DOZ. x 6 OZ.

OR 1 DOZ. x 4 OZ.
1 DOZ. x 6 OZ.
½ DOZ. x 12 OZ.

OR 1 DOZ. x 4 OZ.
1 DOZ. x 12 OZ.

2½% BONUS
2 DOZ. x 4 OZ.

OR 1 DOZ. x 4 OZ.
1 DOZ. x 6 OZ.

OR 1 DOZ. x 4 OZ.
½ DOZ. x 12 OZ.

Be sure to include
one of these parcels with
your Flit bonus order!

**ORDER NOW AND
PROFIT 2 WAYS!**

**EXTRA FAST SALES!
EXTRA GENEROUS DISCOUNTS!**

SPECIAL BONUS ON ALL OTHER FLIT LINES, TOO!

Watch for full details in this Journal

STEMCO LIMITED, 128-132 ALBERT STREET, CAMDEN TOWN, LONDON, N.W.1

DAILY EXPRESS

HALF PAGE ON JANUARY 13th

*READERSHIP OVER 11 MILLION

IT'S HERE...AND AS NEW AS TODAY

NEW SUPER-WHITE KOLYNOS

THE NEW TOOTHPASTE YOU CAN PROVE IS BEST



1 TEST IT FOR COLOUR :
squeeze it out on a toothbrush and compare it with any ordinary toothpaste. At once you'll see that New Super-White Kolynos is many times whiter... with a new, wonder-smooth texture.

2 TEST IT FOR CLEANING :
use Super-White Kolynos—after 8-12 days (depending on your present standard of whiteness) you'll see how thoroughly, safely clean it gets your teeth for real protection.

3 TEST YOUR BREATH :
before and after using New Super-White Kolynos. Before you may have that 'stale as yesterday' odour. After the test proves that New Super-White Kolynos makes your breath fresh for sure!

4 TEST IT FOR TASTE :
against any ordinary toothpaste. You'll love the delightful, fancy new mint flavour of New Super-White Kolynos. At last here's a toothpaste that's a real pleasure to use.

New Super-White Kolynos is the toothpaste everyone's always been waiting for. It's in the shops and chemists now—at only 1/2 a tube. Buy it and start proving it's best today. Remember to ask for New Super-White Kolynos.

Get NEW SUPER-WHITE KOLYNOS for a new smile of confidence



ENTIRELY NEW
brand new whiteness
grand new flavour
Kolynos
SUPER WHITE



TRADE TERMS

1/7d. size : List price 12/- per dozen plus Purchase Tax 3/-.

2/5d. size : List price 18/- per dozen plus Purchase Tax 4/6.

Bring the extra business
to your shop by keeping
SUPER WHITE KOLYNOS TOOTHPASTE
well displayed!

One example from the powerful advertising launching NEW SUPER WHITE KOLYNOS

Regd.

Look at this dynamic advertisement with its confident prove-it-yourself message ! As from Jan. 13, this is what you *and your customers* will be seeing in big spaces in the national dailies, the Sundays, the mass-circulation picture magazines, the women's magazines and the top Provincial newspapers.

Notice that we do not just say that I.C.C.'s newest product — backed by 45 years' experience — is a great toothpaste. We invite the public to prove it ! For we *know* that it improves the standard of tooth whiteness. We *know* that its delightful neo-mint flavour has been pre-tested and proved a top favourite.

Flavour is easily the biggest factor in repeat sales of a toothpaste. Bring the customers into *your* shop by keeping Super White Kolynos displayed. Make the first sale in *your* shop — and you've made yourself a regular customer for the toothpaste they can prove is best — New Super White Kolynos !

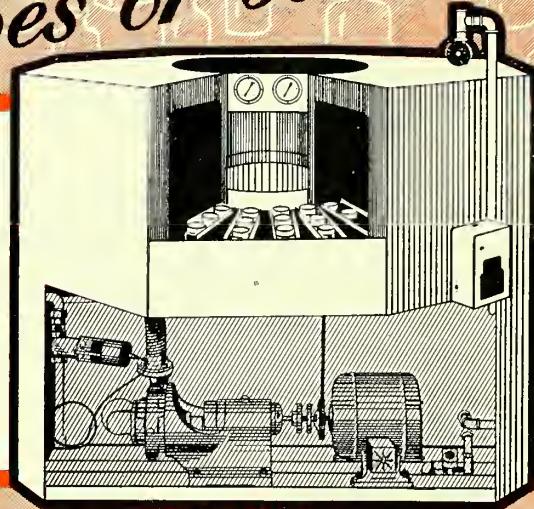


The **APEX** • for cleaning all types of bottles!

Perfect hygiene and absolute cleanliness means everything in bottles. You're safe with "Apex". Simple, economical yet highly efficient, the "Apex" gives clear sparkling bottles from 25 doz. to 200 doz. per hour according to bottle size.

Only one operator required.

Fullest details will be gladly sent.



R. POWLEY & SONS LTD. (Dept. 6/C), SUNDERLAND

Telephone: Sunderland 4846-7

Telegrams: "Powley" Sunderland.

The name that guarantees accuracy

- CLINICAL THERMOMETERS
- HOUSEHOLD THERMOMETERS
- INDUSTRIAL THERMOMETERS




CLINICALS

**G·H·ZEAL
LTD**

LOMBARD ROAD · MORDEN
ROAD · LONDON · S.W.19

Telephone: LIBERTY 2283-4-5-6 and 4201
Cables: "Zealdom" London

IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.

announce price reductions of

Dibencocil®

TRADE MARK

BENZATHINE PENICILLIN

and

‘Sulmezil’

第二章

MOZART
A MUSICAL TRAGEDY IN TWO PARTS

with effect from

Monday next, Jan. 10th

		OLD PRICE	NEW TRADE PRICE
‘Dibencil’ Trade Mark Oral Suspension	50 cc bottles	10/-	8/4
‘Sulmezil’ Trade Mark Oral Suspension	50 cc	9/4	7/6
	500 cc	65/4	60/-
‘Sulmezil’ Trade Mark Tablets	25	13/4	12/6
	100	49/4	45/-
	500	222/-	200/-

IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.

A subsidiary company of Imperial Chemical Industries Ltd.

WILMSLOW, MANCHESTER



Ph. 502

C



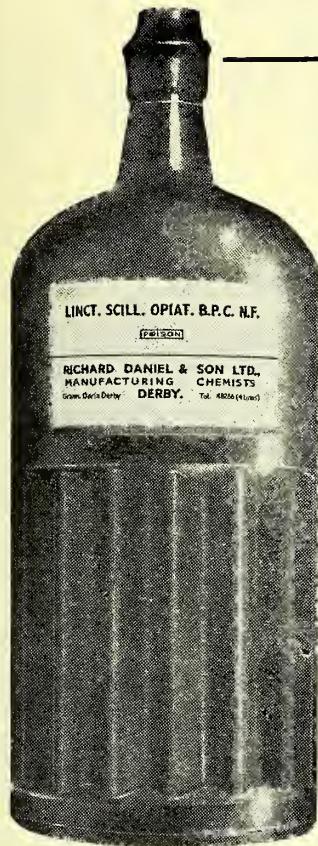
Squibb Neomycin-Gramicidin-Benzocaine Lozenges

Graneodin Lozenges are effective against the organisms responsible for most superficial bacterial infections of the mouth and throat. They also relieve pain and discomfort.

Sensitization has been rare. Neither neomycin nor gramicidin is used systemically and even if sensitization should occur, the patient need not be denied the use of valuable antibiotics employed orally or parenterally for serious diseases.

Literature gladly sent on request.

SQUIBB



GALENICALS for WINTER DISPENSING

*Manufactured under strict
supervision from finest
quality ingredients.*

RICHARD DANIEL & SON LTD.
MANUFACTURING CHEMISTS
MANSFIELD ROAD **DERBY**. TEL.: 48266 (4 lines)
And at GROSVENOR ST., ASHTON-u-LYNE. TEL.: 2816 (3 lines)

* CHANDAU LACQUER
* a NEW Dress
* for a Top Seller

- LARGER SPRAY CONTAINER
- SAME PRICE
- SAME BIG PROFIT... **75%** *

RETAIL 3/6 TRADE 24/- per doz. TAX FREE

(Containers in four pastel shades)

Refills:- Retail 2/3 Trade 16/- per doz. Tax Free

and don't forget!!

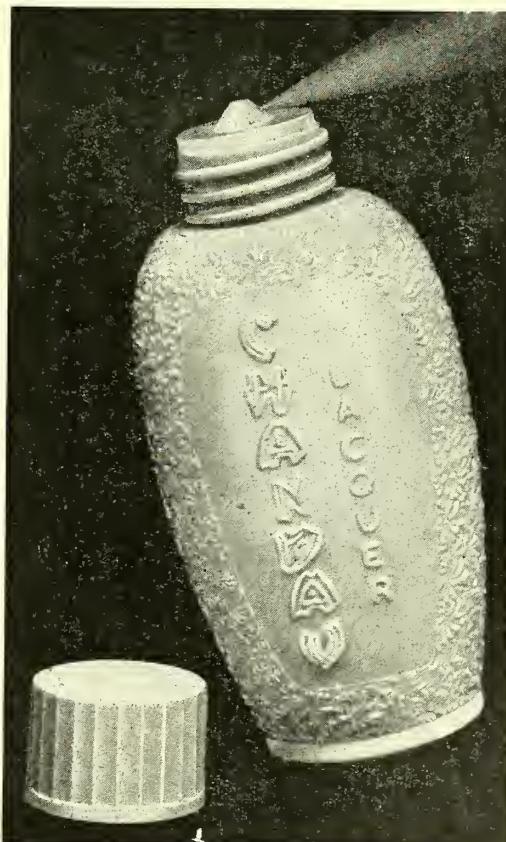
CHANDAU SHAMPOO with EGG

Retail 7½d Trade 4/- per doz. Tax 25% PROFIT **50%** *

Order from your Wholesaler or Direct

T. L. BENTON & CO., LTD.
186, SEVEN SISTERS RD., LONDON, N.7.

Telephone: ARCHway 2674/5



You will earn

Twice the



Painted by Edmund Bristow

WINDSOR C

hy sell her a 6^d tablet?

THE CHEMIST AND DRUGGIST
January 8, 1955 17

profit by selling the **NEW**

ROBERTS WINDSOR

TOILET SOAP AT **10^d**



The **NEW** ROBERTS WINDSOR toilet soaps — **NEW** moulds, **even better** perfumes, **NEW** wrappers—are packed three tablets to the box. The new boxes, beautifully printed in full natural colour, have a delightful flower design on top, superb paintings of Windsor Castle on the underside.

The **NEW** ROBERTS WINDSOR is a toilet soap of now even higher quality. It retails at 10d; and there is a large public with ample means to pay 10d for the *best*. Take advantage of this—and make more than **TWICE THE PROFIT** you get on a 6d tablet!

Backed by advertising in these important magazines:

Woman, Good Housekeeping
Modern Woman, Woman & Beauty
Everywoman, Housewife, Vogue

These top ranking women's magazines have nearly

12
million readers

They will be looking for the **NEW** ROBERTS WINDSOR toilet soaps in your windows and on your counter. So make 1955 a ROBERTS WINDSOR year by stocking up now.

PERFUMES
Dianthus Gorse Lavender
Rose Fern Lilac

Special trial parcel

Roberts Windsor toilet soaps are sold as 10d toilet tablets and as 1/8d bath tablets. For a limited period we are offering a special Trial Parcel consisting of:

1 doz. boxes (36 x 10d tablets) toilet soap
1/8-doz. boxes (18 x 1/8d tablets) bath soap

In Assorted Perfumes,
at normal Trade terms less 5% cash
discount and special 5% bonus.

Established at Windsor Since the days of the Regency  By Appointment Toilet Soap Manufacturers to His Late Majesty King George VI

ROBERTS WINDSOR SOAP CO. LTD., THE ACRE, WINDSOR, and VICTORIA SOAP WORKS, COLWICK, NOTTINGHAM



big news for every retailer

*Here's news of a leading
summer line that's going to
bring you unexpected profits NOW!*

In just two weeks, the first of over 50,000,000 advertisements will launch the biggest-ever, nation-wide campaign for Jaffajuce, the famous orange drink which contains over 80% pure orange juice with its vital Vitamin C intact.

The increasing demand for Jaffajuce orange is due to the public's recognition of it as a *quality* product, and the health campaign which will break in a few days will stress the benefits of Jaffajuce in winter to every household in the land.

Alongside, the key space of the campaign, a half page in 2 colours in the "Daily Express" is reproduced in miniature in black and white. This vast and influential "shop window" with over 11,000,000 shoppers, will be the dominant feature of the advertising and will be supported by large spaces in other leading National Dailies, Sundays and Weeklies, as well as a host of provincial newspapers.

SPECIAL BONUS OFFER 1/- PER DOZEN

Attractive display material is available for your counters and will enable you to take your full share of this all-important campaign. The special bonus terms of 1/- per doz. will be available on every order executed during **January, February and March** making it trebly profitable for you.



YOU CRAVE FOR IT IN JUNE, BUT...

your body most needs

Jaffajuce now!

Breakfast break with it
A glass of delicious Jaffajuce before breakfast gives you an appetite and disperses performing 'blues'; starts the day off with a good ration of precious Vitamin C, too!

Evenings and with it
A good strong glass of Jaffajuce has the perfect 'digestive', particularly when cold and flavorabout. You can taste Jaffajuce doing you good!

3½ and 3½ a bottle

Gold Cup JAFFAJUCE
SWEETENED ORANGE
DRINK WITH A FRUIT SMOOTHIE

Gold Cup Jaffajuce
SWEETENED ORANGE
IT'S 80% REAL ORANGE JUICE WITH ITS VITAL
VITAMIN C INTACT, SWEETENED WITH PURE SUGAR

This is a reproduction of the spearhead of the Jaffajuce campaign—

**½ Page in two colours in the
DAILY EXPRESS with over 11,000,000 readers**

This forceful advertising also appears in the leading National Dailies and Sundays, London Evenings, big circulation National and Women's Magazines, and important provincial newspapers.

GOLD CUP
Jaffajuce
SWEETENED ORANGE

Trade enquiries to:

BOVRIL LTD · 148-166 OLD STREET · LONDON · E.C.1



Wyeth have pleasure in announcing the following
price reductions taking effect on
Monday, January 10th, 1955.

PENIDURAL ORAL SUSPENSION 60 c.c.

Price to Pharmacist :

Old 12/- New 10/-

PENIDURAL ALL-PURPOSE INJECTION

1.2 mega-units

Price to Pharmacist :

Old 4/- New 3/8

SPECIAL NOTE: The prices of Penidural Oral
Tablets and Penidural Long-Acting Injection 4 c.c.
and 10 c.c. vials remain unaltered.

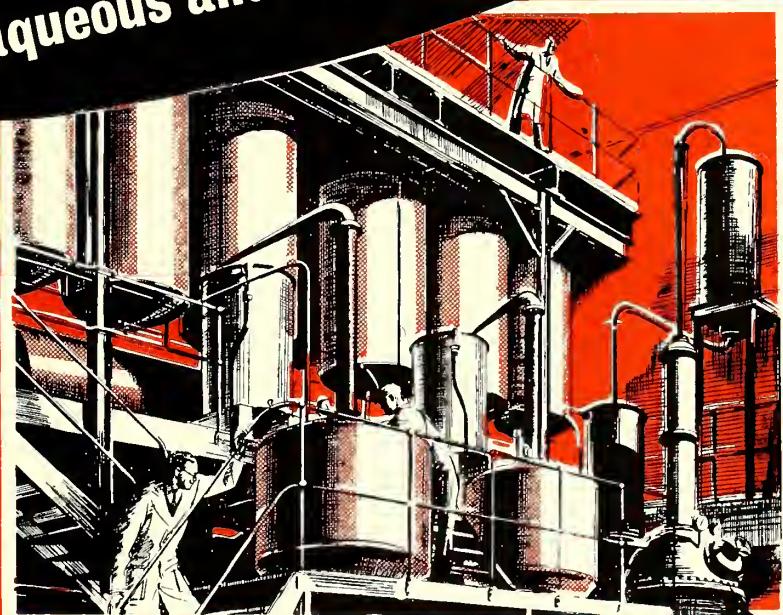
Please see 'TRADE NOTES'

'Penidural' is a registered trade mark

JOHN WYETH AND BROTHER LIMITED

CLIFTON HOUSE, EUSTON ROAD, N.W.1

A natural raw material
EXTRACTION SERVICE
 aqueous and solvent



Many product formulae contain extracts of natural products, such as drug, herb or spice extract, but, unless tonnage is really large, it is seldom economic to install special extraction plant for individual lines.

We have been extracting a very wide range of raw materials for nearly a century and have available a large and comprehensive plant, together with great experience in this work. In addition to extracting and marketing our own range of high quality drug and other extracts, we undertake the extraction of customers' materials to their own specification. Thus we can place at your disposal a suitable plant for extracting your materials—whether by the hundredweight or ton.

WE OFFER YOU OUR EXTRACTS AND OUR EXTRACTION SERVICE, FULL PARTICULARS OF WHICH WILL GLADLY BE GIVEN ON HEARING FROM YOU



STAFFORD ALLEN & SONS LTD.
 WHARF ROAD, LONDON, N.1

Telephone: CLErkenwell 1000
 Telegrams: 'Stafalens, Nordo,
 London'

Cables: Stafalens, London

StaffordAllenS
 NATURAL RAW MATERIAL
 EXTRACTION SERVICE



*Press
on with*

COOPER'S

**FOR STILL BETTER
BUSINESS!**

Special Bonus

A bonus discount will again be available this year on all orders for Cooper's Household Aerosol for delivery before April 30th. In addition to normal Trade and Cash discounts, the following bonuses will apply:—

5% BONUS—on 4 doz. x 4-oz. or equivalent weight in assorted sizes (4-oz., 6-oz., 12-oz.).

2½% BONUS—on 2 doz. x 4-oz. or equivalent weight in assorted sizes (4-oz., 6-oz., 12-oz.).

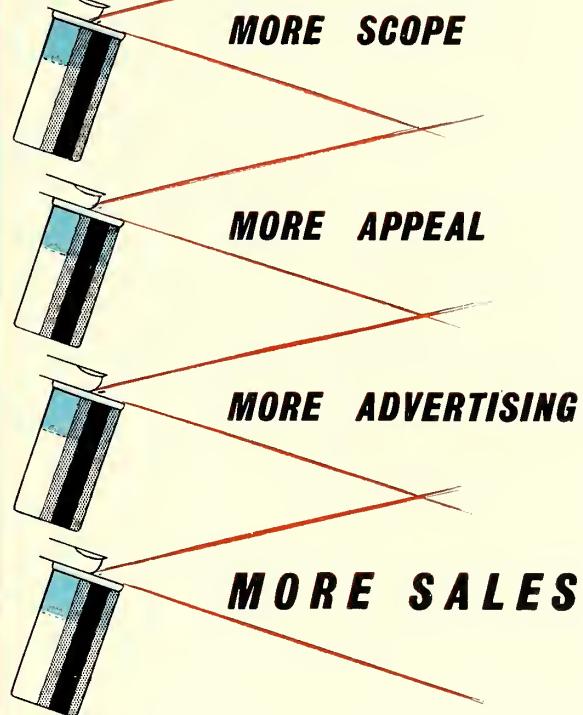
COOPER, McDougall & Robertson, LTD · BERKHAMSTED · HERTS · Est'd 1843



MOTH-aire and FRESH-aire. With a bonus quantity order placed for COOPER'S HOUSEHOLD AEROSOL, retailers may also order MOTH-aire and FRESH-aire on the same advantageous terms up to April 30th. The bonus rate on MOTH-aire and FRESH-aire will be the same as that allowed on the qualifying order for Cooper's Household Aerosol. These recent additions to the Cooper range offer you further scope for increased sales and profit. MOTH-aire provides press-button protection for up to 12 months against moth damage to stored clothing and furnishings. FRESH-aire acts *instantly* against household odours. ALL THREE products will be advertised in commanding half-pages in "Radio Times", "Picture Post" and other mass-circulation media, and attractive display material will again be available. There's more profit than ever for you from Cooper Products in 1955!

REDUCED RETAIL PRICES.

COOPER'S HOUSEHOLD AEROSOL
4-oz. — 5/3, 6-oz. — 6/6, 12-oz. — 10/6.
FRESH-aire — 4-oz. — 5/3.
MOTH-aire — Small 5/6, Large 9/6.



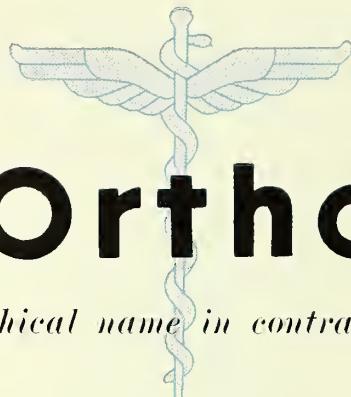
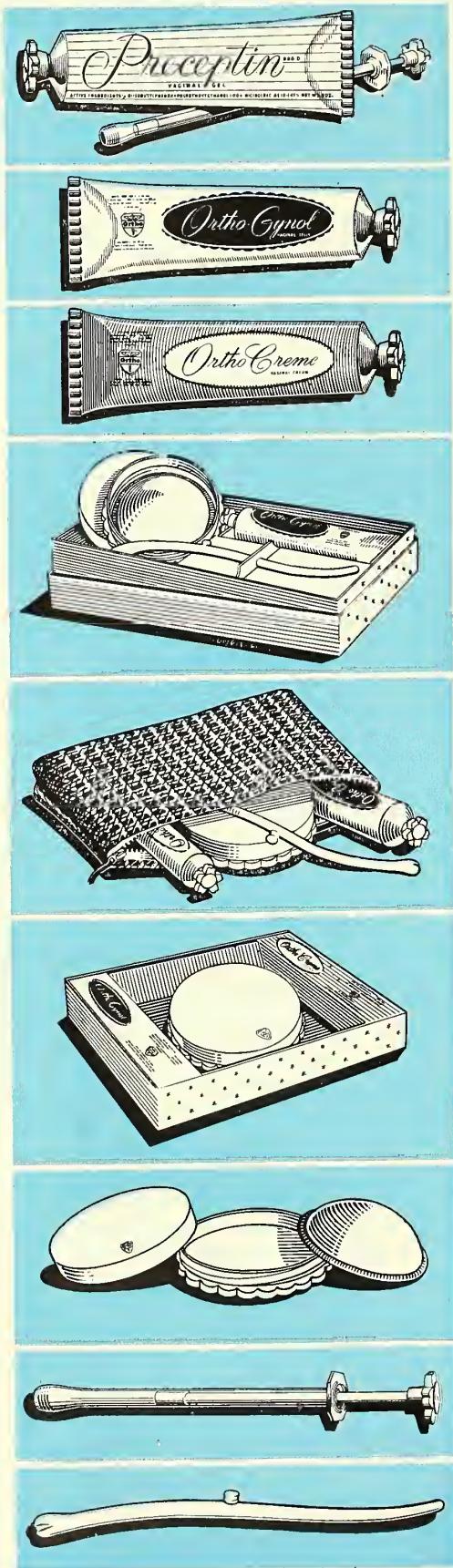
★ *Don't miss this opportunity for EXTRA PROFIT — order early and stock up well.*

COOPER'S FLYSPRAY

Besides the Bonuses on aerosols, a separate 5% BONUS DISCOUNT will be allowed on all orders, value £5 or over, for Cooper's Household Flyspray placed not later than April 30th. Sprayers, Cooper's Moth Powder, Moth Spray and Household Insecticide (in the new Puffa-pack) can be included to make up the total value of the order to £5 or more. Normal prices and discounts for these products are given in the 1955 Cooper's Household Trade List. Write for a copy if you have not already received one.



SCOTTISH OFFICE: 62, ROBERTSON STREET, GLASGOW, C.2



Ortho

the ethical name in contraception

Preceptin Vaginal Gel: contraceptive gel for use without a diaphragm.

Package A: 85 gm. tube, with Ortho Applicator.

Package B: 85 gm. tube.

Ortho-Gynol: contraceptive jelly.

Package A: 85 gm. tube, with Ortho Applicator.

Package B: 85 gm. tube.

Ortho-Creme: contraceptive cream.

Package A: 75 gm. tube, with Ortho Applicator.

Package B: 75 gm. tube.

Ortho-Gynol Set:

85 gm. tube of Ortho-Gynol

Ortho Diaphragm } in sizes 55 to 95

Ortho Diaphragm Introducer } (in 5 mm. gradations).

Ortho-Creme Set: as Ortho-Gynol Set with tube of Ortho-Creme instead of Ortho-Gynol in sizes 55 to 95 (in 5 mm. gradations).

Ortho De Luxe Kit: containing full size Ortho-Gynol, trial size Ortho-Creme, Ortho Diaphragm and Diaphragm Introducer in woven plastic zipper bag. Sizes 55 to 95 mm. (in 5 mm. gradations).

Ortho Diaphragm Duo-Pack: containing: Ortho Diaphragm in sizes 55 to 95 (in 5 mm. gradations). Trial size Ortho-Gynol. Trial size Ortho-Creme.

Ortho Diaphragm: coil spring, sizes 55 to 95 (in 5 mm. gradations).

Ortho White-Diaphragm: flat spring, sizes 55 to 95 (in 5 mm. gradations). Each Ortho Diaphragm is packed in a permanent and beautiful plastic box.

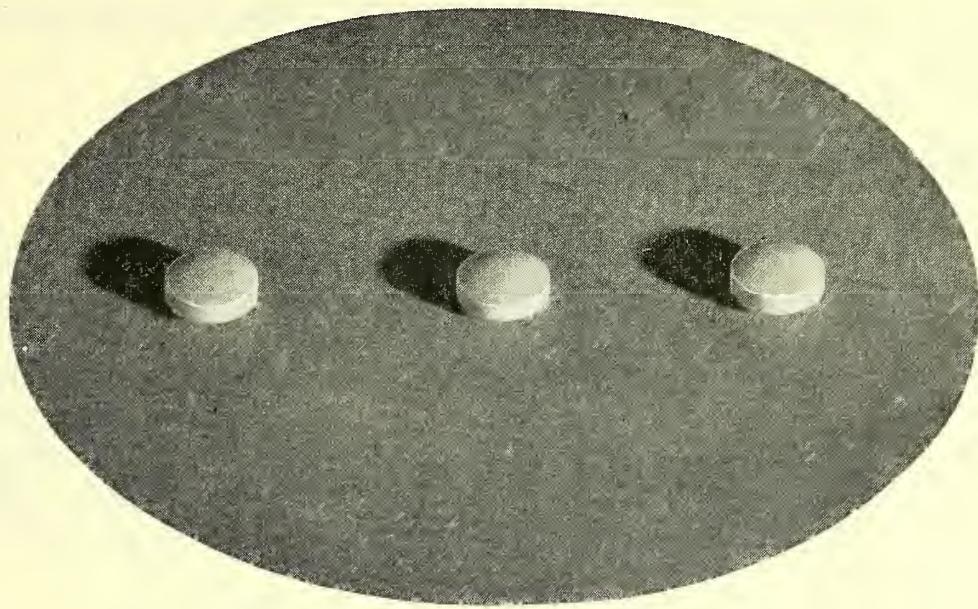
Ortho Applicator: for vaginal application of measured dose (5 cc.) Ortho-Gynol, Ortho-Creme or Preceptin Vaginal Gel.

Ortho Diaphragm Introducer: individual introducers to accommodate diaphragms sizes 55 to 95 (in 5 mm. gradations).



Ortho Pharmaceutical Limited

HIGH WYCOMBE · ENGLAND



Consistent every one alike !

Shape, weight, appearance and above all active ingredients.

No matter whether it be hundreds, thousands, or millions, the quality of Thompson & Capper's Tablets is something the pharmacist doesn't have to worry about.

**THOMPSON
AND
CAPPER
FOR
TABLETS**

A New Bengué-Bailly Product

GROMIDIN TABLETS

each containing 0.25 mg. Pure Gramicidin, an antibiotic of microbial origin. It is a cyclic polypeptide containing various amino-acids (Glycine-Alanine-Valine-Leucine-Tryptophane) and Ethanolamine.

Indications: Treatment and prophylaxis of rhino-pharyngeal, laryngeal, buccal and dental affections. Also in treatment of bronchitis.

POSOLOGY

5 to 10 tablets daily, to be dissolved slowly in the mouth.



PACKING: TIN OF 25 TABLETS

Your price 31/6 per dozen

Retailing at 3/6 per tin

When a cough sedative, expectorant and respiratory tonic is required . . .

PULMO-BAILLY

IS THE ANSWER

Prescribable on Form E.C.10.



90 cc. BOTTLE

Your price 34/- per doz. plus 8/3½ P.T.

Retailing at 4/6 each



DISPENSING PACKS

16 fl. ozs. 11/6 net. 80 fl. ozs. 45/- net.

BENGUE & CO., LTD.



Manufacturing Chemists, MOUNT PLEASANT, ALPERTON, WEMBLEY, MIDDX.



B·D·H

SEX HORMONE PRODUCTS

Price Reduction

Reduced prices for the range of B.D.H. Sex Hormone Medical Products (with some minor exceptions) will be operative from Monday, 10th January, 1955.

Full details have been circulated to hospitals, wholesalers and retail chemists.

DEOXYCORTONE ACETATE B.D.H.
'ESTIGYN'
(Ethynodiol B.D.H.)
ETHISTERONE B.D.H.
'LUTOFORM'
(Progesterone B.P. in aqueous suspension)
'MEPILIN'
(Combined androgen-oestrogen)
METHYLTESTOSTERONE B.D.H.
TESTOSTERONE B.D.H.

'OESTROFORM' AQUEOUS
(Estradiol Monobenzoate B.P.
in aqueous suspension)
'OESTROFORM'
(Injection of Estradiol Monobenzoate
B.P. and Tablets of Estrone B.P.)
PROGESTIN B.D.H.
'TESTAFORM'
(Testosterone Propionate B.P.
in aqueous suspension)
TESTOSTERONE PROPIONATE B.D.H.

THE BRITISH DRUG HOUSES LTD. LONDON N.1

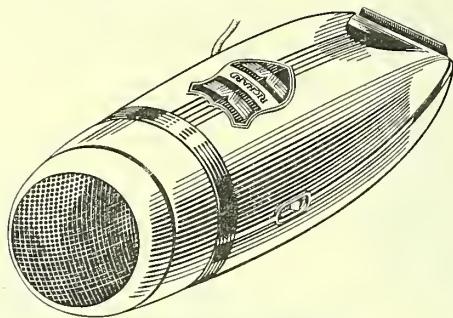


A bewitching new "fashion colour" that devastates at first sight! Creamy-soft, incredibly long-lasting, Goya's new lipstick in Europe's most sophisticated black and gold case is real cosmetic value at only 5/- (refills in moulded holders 2/9).

Full colour back covers supported by black-and-white advertisements for Flamingo are now appearing in all the leading women's magazines—part of Goya's nation-wide campaign that will tell millions of women about this tempting new lipstick.

PARIS · LONDON · NEW YORK

YOU WILL BE INTERESTED
in these facts about the



RICHARD

SWISS HIGH PRECISION
ELECTRIC SHAVER

- ★ TWO SEPARATE HEADS—THE SHAVING HEAD. Self-sharpening blade, under multi-holed steel grille, gives world's closest and smoothest shave.
- ★ THE CLIPPER HEAD deals with all long hairs, trims moustaches, beard and back of neck, safely removes superfluous hair.
- ★ A/C & D/C all-voltage Commutator Brush motor.
- ★ Fitted T/V and Radio interference suppressors.
- ★ Backed by NATIONAL ADVERTISING—and 12 MONTHS GUARANTEE!
- ★ Point-of-sale displays available. Special terms granted for limited quantity of demonstration models.
- ★ Fully equipped service departments in all countries throughout the world.
- ★ Precision engineered with the same skill that has made the Richard watch famous throughout the world.

RICHARD

The only complete electric
shaver swift-simple-safe

3 mods.: Universal model
100/120 200/240 AC/DC ... £8.19.0
Home mod.: 200/240 AC/DC £8.19.0
Car mod.: 6/12 volts AC/DC £9.12.6

All trade enquiries to:

B. H. RIES LTD. 19-21 HATTON GARDEN, E.C.1



SOUTH AFRICAN MARKET

Alex. Lipworth Ltd., Wholesale Pharmaceutical Distributors, offer facilities for the manufacture, packaging and distribution of Patent, Toilet, Proprietary and Ethical preparations throughout the Union of South Africa and the Rhodesias.

Head Office :
120 JEPPE STREET, JOHANNESBURG.
Branches :
CAPE TOWN, DURBAN, BULAWAYO.

HOME TRADE

JKL

EXPORT

BUCHU

SENEGA

RHUBARB

and all other Botanicals, Gums,
Waxes, Essential Oils and Spices

JOHN KELLYS (LONDON) LTD.
24 OLD BROAD STREET, E.C.2

Telephone: LONDON Wall 4882, 6585 (3 lines)
Telegrams: "Ergotine, Stock, London"

NEW YORK • HAMBURG



**Modess
Masslinn**

FREE OSTEND HOLIDAY CONTEST

Six prizes—each consisting of fourteen days in lovely Ostend any time during June or September, 1955, for you and your family (or you and a friend if you are single). First class hotels. First class food. First class travel there and back. All free—plus £50 to spend while you are there.

Here's how to win. If you are a shop owner or manager, simply see that all your counter assistants enter the Contest. If one of them wins, there's an entirely separate free holiday for you too.

If you are an assistant, start to-day collecting the bands from all the packets of Modess Masslinn sanitary towels you sell. Fill in the Entry Form below, completing the sentence: "I recommend Modess Masslinn to my customers because . . ." using not more than twenty additional words. Then send it in with 50 bands. Send as many entries as you like, providing each is accompanied by 50 bands. Prizes will be awarded to the six entries judged to be the most apt, original and sincere. Prize-winning entries will be chosen by an independent panel of judges. The judges' decision shall be final and no correspondence can be entered into. Proof of posting cannot be accepted as proof of delivery. The last date for entries to reach us is 30th April, 1955.

Fill in this coupon and attach it to your entry on a plain sheet of paper on which you should complete the sentence: "I recommend Modess Masslinn to my customers because . . ." using not more than twenty additional words. Be sure to send 50 Modess Masslinn bands with your entry.

Name

Shop Address

I have read the rules of the Contest and agree to abide by them.

ENTRY FORM

To: Johnson & Johnson
(Gt. Britain) Ltd.,
Dept. CD.,
24-25 Princes Street,
London, W.1.

PINAUD

PRESENTS THE RANGE!

—the finest range of hair preparations it is possible to produce in 144 years including the 'World Beaters'
POMMADE HONGROISE and '612' CREAMY MASCARA



PINAUD'S

		Retails s. d.	Cat. No.		Retails s. d.	Cat. No.
EAU-DE-QUININE	...	4 9	2690	SETTING LOTION "OPERA"	4 6	3228
" "	"	8 7	2702	SET-UP PRE-SHAVE	5 10½	120
" "	"	16 3	2726	LILAC AFTER SHAVE	5 10½	2630
" "	" WITH OIL	4 9	16014	AFTER SHAVE TALC	4 6	7803
" "	" "	8 7	16015	LIQUID BRILLANTINE	3 0	13302
" "	" "	16 3	8514	HONEY AND FLOWERS	4 6	3212
EAU-DE-BLANCHE	...	8 7	2696	VIOLET HAIR OIL	4 0	3232
EAU-DE-PORTUGAL	...	4 9	2724	JASMIN HAIR OIL	4 0	3236
" "	"	8 7	2725	LAVENDER HAIR OIL	4 0	3240
" "	"	16 3	2594	TONICREAM	3 9	50
" "	" WITH OIL	4 9	2801	COSMETIQUE BRILLANTINE BATON	8 6	1222
" "	" "	8 7	2802	"	12 3	1200
" "	" "	16 3	2803	BRILLANTINE TINS	3 6	1557
BAY RUM	...	4 6	3202	POMMADE HONGROISE	1 9	700
LOTION VIOLETTES DES BOIS	...	5 10½	2637	'612' CREAMY MASCARA	5 6	612
LOTION LILAS DE FRANCE	...	5 10½	2630L			

(All above prices include P. Tax)

Order from Sole Agents to Chemists:—

BIOMETICA LTD., BOREHAM WOOD, HERTS. (Makers of BUTO)

IN LONDON

askit*stocked and supplied by:*

Allied Drug & Chemical Co., N.W.1
 Barclay & Sons Ltd.
 Brooks & Warburton Ltd., S.W.1
 Butler & Crispe Ltd., E.C.1
 R. Hovenden & Sons Ltd., E.C.1
 May, Roberts & Co. Ltd., N.16
 Martindale's, W.1
 Sangers Ltd., N.W.1
 United Chemists Association Ltd.

and other leading wholesale houses throughout the country

ASKIT LTD., MANUFACTURING CHEMISTS, GLASGOW N.

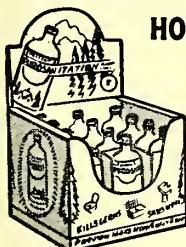
Agents Wanted to sell BEES SEEDS THAT GROW

- On Sale or Return—You pay only for what you sell
- Millions of packets sold Every Season
- Weekly Advertisements Appear in all National Papers During Season
- High Class Pictorial Packets to Retail at 2d., 4d., 6d. and 1/-
- Known and Grown by Gardeners Everywhere

**PIN THIS
TO YOUR NOTE-HEADING FOR TERMS**
BEES LTD. Agency Dept. 28, 30, MILL ST., LIVERPOOL.

Pritchards
PRODUCTS
Spell
PROFIT
PUROSAN

HOME DISINFECTANT



An attractive Counter Display shows this powerful disinfectant to your customers. Many household uses as germicide and general disinfectant. Pleasant and refreshing.

Price—8 oz. bottle 1/-.
16 oz. bottle 1/9.

D.D.T. SPRAY-A-MIST KILLS ALL INSECT PESTS

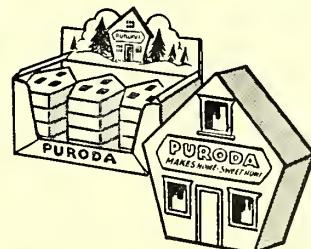


Profit by the demand for this handy Plastic Sprayer designed specially for use with Pritchards D.D.T. Fly Spray which is scented, refreshing, hygienic and safe. Attractively packed in Display Cartons of $\frac{1}{2}$ Dozen Outfits with sales literature etc. Extra refills, 8 oz.—3 Dozen and 1 Dozen Displays.

← Price 3/9 Complete →

PURODA MAKES HOME Sweet HOME

A pleasantly scented moth repellent Deodorant. Attractively presented in Cottage Holder Dispenser. Packed in Display Cartons containing 1 dozen. Sells on sight. Price 1/- each.



ORDER NOW FROM YOUR WHOLESALER

**PRITCHARDS LTD. CHEADLE, CHESHIRE****PRITCHARDS TRUSTY PRODUCTS** BACKED BY 100 YEARS EXPERIENCE

Leadership in oral iron therapy . . .

FERROMYN

(Ferrous Succinate)

**THE NEW ORGANIC IRON—A COMPLETE RANGE AT
REDUCED PRICES**

50% reduced dosage

50% higher utilisation

30% reduction in price

This new iron preparation presents Ferrous Succinate, the bivalent iron salt of succinic acid. Succinic acid, together with glycine is essential for the synthesis in the red bone marrow of a porphyrin (hæm) containing iron.

The controlled clinical trials with FERROMYN show a mean utilisation factor of 42% as compared with the mean utilisation factor of 28% with Ferrous Gluconate and 14% with Ferrous Sulphate.

A notable feature of this preparation is that the very favourable response is obtained with the minimum overall dosage of ferrous salt thus ensuring minimum risk of toxic reaction.

The range of FERROMYN preparations has been extended to include ELIXIR FERROMYN and ELIXIR FERROMYN 'B'.

TABLETS

EACH TABLET
CONTAINS:—

Ferrous Succinate 150 mgm.

Bottles of 100 3/- + P.T.
Bottles of 1000 26/- + P.T.

ELIXIR 'B'

EACH TEASPOONFUL
CONTAINS:—

Ferrous Succinate 150 mgm.

Aneurine

Hydrochloride 1 mgm.

Riboflavin 1 mgm.

Nicotinamide 10 mgm.

4 fl. ozs. 4/6 all

20 fl. ozs. 21/6 exempt

40 fl. ozs. 42/- P.T.

80 fl. ozs. 80/-

ELIXIR

EACH TEASPOONFUL
CONTAINS:—

Ferrous Succinate 150 mgm.

4 fl. ozs. 4/3 + P.T.

20 fl. ozs. 20/6 + P.T.

40 fl. ozs. 40/- + P.T.

80 fl. ozs. 78/- + P.T.

CREWE

Telephone
Crewe 3251-5

CALMIC LIMITED

LONDON

2 Mansfield Street W.1
Telephone LAningham 8038-9

12 for the price of 11 during January only

To introduce this new powerful louse powder we offer 12 tins for the price of 11, if ordered by January 31st. 'Gammexane' Louse Powder is new—safe—persistent—and deadly to lice on livestock. It contains gamma BHC, the world famous I.C.I. discovery, the *safest and most powerful* of insecticides.

Outlay

11 tins @ 4/4 = 47/8

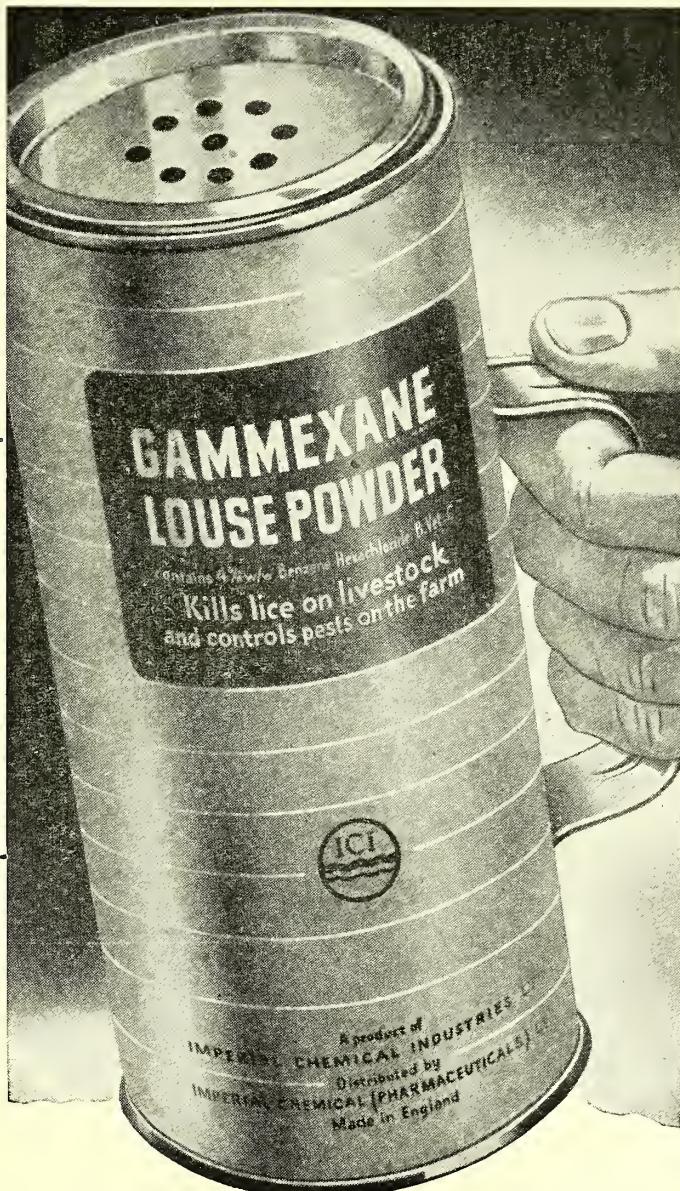
Return

12 tins @ 6/6 = 78/-

Your Profit 30/4

Advertised in large spaces in the National Farming press. Showcards and counter leaflets freely available.

Formulated for use on the farm, Gammexane Louse Powder has also many domestic uses. In large sprinkler tins, retailing at 6/6 each.



IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED

A subsidiary company of Imperial Chemical Industries Limited

WILMSLOW, MANCHESTER

Ph.B. 134

PRICE INCREASE

Owing to the recent substantial increase
in paper prices, we have been reluctantly
compelled to increase the price of our Toilet Rolls

The new price, effective on all despatches on and after
3rd JANUARY 1955 will be

RETAIL PRICE 1/- PER ROLL
TRADE PRICE 120/- PER GROSS

Subject to the usual trade terms

★ There will be no change in the price of the Jeyses'
Interfolded Toilet Paper.



JEYES' SANITARY COMPOUNDS CO LTD - MANOR RD - CHIGWELL - ESSEX

6d PER
LARGE TABLET

*A favourite with
Chemists for
many years'
past . . .*

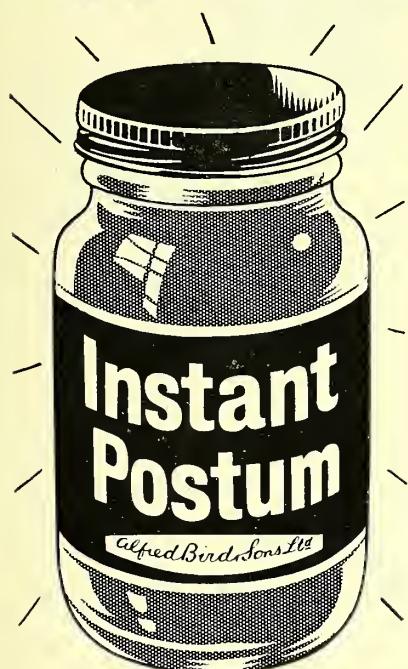
A soap of good honest quality with the true "White Windsor" refreshing aroma . . . and still today's best value in general purpose soap - welcome in every home.

Large size in attractive cartons, small size in wrappers. Samples and display materials sent on request or our representative will call.

Gerard
WHITE WINDSOR

GERARD BROS. LTD. THE SOAP WORKS. NOTTINGHAM
Independent Soap Makers Since 1876

UP-UP-UP GO THE SALES OF BIRD'S 2/6d. BEDTIME DRINK!



*Instant Postum
keeps on climbing*

It's nightcap weather now, and Bird's Instant Postum is meeting the nation-wide demand for a nightcap drink that's really *economical*.

Retailing at 2/6 a 50-cup jar, it's selling like hot cakes. Everywhere sales are up . . . up . . . up, and still climbing. The last quarter of 1954 was the most successful ever—and the sales barometer is "set fair" for 1955!

What's more, famous people like TV star Elizabeth Allan and racing motorist Sheila Van Dam, are selling Instant Postum for you in a big advertising campaign!

But, let's face it, quite a few retailers are missing this great opportunity. They've let their stocks run down. Make sure you're not one of them: there's a wonderful profit opportunity for *you* in Instant Postum.

**DRAMATIC
ADVERTISEMENTS**

appearing in all these papers
are *selling* Instant Postum

News of the World	Daily Herald
Sunday Pictorial	Daily Mirror
Empire News	People
Week-end Mail	Reveille
Reynolds News	Tit-Bits

Ask your wholesaler about

INSTANT POSTUM

or write to Alfred Bird and Sons Ltd.,
Devonshire Works, Birmingham 12.

**"100% SLEEP FOR ME"
SAYS ELIZABETH ALLAN**

In any one day, you might find lovely Elizabeth Allan in many roles. Before the TV camera, on the film set, out walking with her

able, Instant Postum is the bedtime drink that has helped many famous people to success. It is a

PHARMAX PRODUCTS

ARE



AND

P.A.T.A.



NATIONAL
DAILY
PRESS

NATIONAL
SUNDAY
PRESS

and have proved their efficacy by their popularity and by medical support.
Both Diuromil and Ralgex have been approved by the Chemists' Federation and carry generous display and quantity discounts.

REGULARLY ADVERTISED in the National and Provincial Daily and Sunday Press, Periodicals and on screens of London and Provincial Theatres.

Very attractive show material gladly sent on request.

PHARMAX LTD., Gravel Hill, Bexleyheath, Kent

PROVINCIAL
PRESS

PERIODICALS
AND
MAGAZINES

NATION WIDE
SLIDES ON
THEATRE SCREENS

DISPLAY
MATERIAL

FOR ORAL PENICILLIN THERAPY

SUSPENSION

TRADE MARK **‘NEOLIN’** BRAND

BENZATHINE PENICILLIN

Effective by mouth • Ready to use • Sustained blood levels

Delightful flavour • Stable at room temperature

PRICE REDUCTION★

As from Monday, January 10th, 1955, the net trade price of
‘NEOLIN’ will be reduced from 12/- to 10/- per 60 c.c. bottle.

* see trade notes

Lilly
TRADE MARK

ELI LILLY AND COMPANY LIMITED
BASINGSTOKE • HANTS

E.
Illingworth
& Co (BRADFORD) Ltd

Shelf Mills, Shelf, nr. Halifax, Yorkshire

Tel: Low Moor 400 (4 lines) Grams: "Illmond," Bradford

COTTON WOOLS

B.P.C. Quality Cotton Wools

Hospital Quality Cotton Wool
 (Drug Tariff.)

Sterilised and Unsterilised,
 In all weights, for home and export
 Quantities labelled with your own labels

Cotton Wool Dispenser
 (Pleated Filling, Attractive Carton)

BOTTLE NECK WOOL
 FILTER PADS
 WOOL & COTTON TISSUE
 B.P.C. Quality
 RESPIRATOR REFILLS
 KNITTED BANDAGES

PACKING MATERIALS

NEEDLELOOM FELTS

For thermal, sound and vibration
 Insulation and protection.

COTTON WOOLS

Bleached and Unbleached Rolls from 2 in.
 to 40 in. wide, weights 3 oz. per sq. yd.
 upwards.



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
 all sections of the drug, pharmaceutical and
 fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland
 and the Pharmaceutical Society of Northern Ireland

Volume 163 January 8, 1955 No. 3907

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The CHEMIST AND DRUGGIST

Volume 163

JANUARY 8, 1955

No. 3907

Proprietary Medicines

CHANGES IN COHEN COMMITTEE LIST

A REVISED edition of the booklet giving lists of proprietary preparations classified in categories 1, 5 and 6 by the Standing Joint Committee on the Classification of Proprietary Preparations and by the Joint Committee on Prescribing has been issued by the Ministry of Health and the Department of Health for Scotland.

The following are the additions to categories 5 and 6:—

Category 5

(*Non-official preparations not considered as of proved therapeutic value.*)

Antalby (Bailly) suppositories; Anti-Bisan; A.P.L. serum derivative, Antibody Products; Arthropsin; British bee venom and British bee venom ointment, Antibody Products; Crookes vitamin B₁₂ tablets; Diandrone tablets; Dynotabs Antithy pancreas, Dynotabs Pitsperm adrenal, emulsio acid lactic (after Metchnikoff) Hancol, Hormones & Chalones; H. 11 elixir; haemostatic R & C, Continental Laboratories; Liverax tablets; pig bile Pulverettes; pituitary body Pulverettes; Reazide tablets; Rocar ampoules and tablets; Spasmenin (Vaughan); Thromboral; Vegemusin; vitamin B₁₂ tablets, Crookes; Yamsil powder and tablets.

Category 6

(*Preparations which are a combination of categories 4 and 5.*) Adralene; Ambrosia lactation tablets; Anabalm; Anacrasine granules; Antalby tablets (Bailly); A.P.L. 37 iron solution; Arthropax cream; Bekovit lozenges and tablets; Bidrolin tablets; Biorub; Calthor salve; Casobees; Cholagilon dragees; Compound adrenaline cream, Rouse; Compressoid anti-flatus; Cortiforte balm with belladonna; Cortiforte plain; Crookes vitamin B complex elixir; Cureethyl; Delercyl; Duogestan lozenges and powder; Dynotabs: diastase compound, duo-pancreas, guaiacol succinate co., liver extract with haemoglobin, pit-mammary, placento-mammary, spleen co., subtonin A, subtonin B, Testosanforde, Thygon-ovarian, Thygon-pancreas, Thygon-spermin, Thyman-ovarian, Thymus-renal, Thy-Pit Co., Thypit-ovarian, Thysperm adrenal; Elixobee; Elixomin; Enterospasmal (logeais-simple and logeais-mucilaginous); Femivir; G.T. 50 A and G.T. 50 B; Hemo-cyto-sol; Homovir; Hormoprostine tablets; Hypabeta; Ilon abcess salve; Immidol; In-Go analgesic balm; Iodamelis P drops and tablets; K. 3126 tablets, Kerfoot; Lederplex liquid and tablets; Leuotrophin injections and tablets; Liver-tone tablets; Magnogene suppositories;

Moltiflix; Mynobalm; Naphthionin; Noxco; Nurotone syrup, Mawson; Okavena tablets (red or green) and suppositories; Pancrepatine, A.F.D.; Panturon (forte and mite); Papatrophin suppositories and tablets; Phenophyll, Woolley; Quintas tablets; Reipar; Rheumelin; Riddobetes anti-diabetic tablets; Riddorheum liquid and ointment; Rubratron elixir; Saliode (external) Gabail; Silbe asthma tablets; Stomatex powder and tablets, Thiamal-gyl choline; Transvasin; Trilix; ung. Renaglandin.

There are also a large number of deletions in categories 5 and 6 because of discontinuance of products by the makers, change of formula, etc. The preface to the list states that in some cases the classification will be subject to review after the B.P.C. 1954 becomes official.

The new list replaces the list issued in July 1953 (see *C. & D.*, July 25, 1953, p. 73) and the list of alterations and additions issued in January 1954 (see *C. & D.*, January 30, 1954, p. 97).

HEALTH SCHEME In Sweden from January 1

SINCE January 1, every Swedish wage earner aged sixteen or over must join a new compulsory national health insurance scheme. It replaces the voluntary schemes run by the State-aided benefit societies. Contributions to the new scheme, ranging from 44 to 222 Sw. Cr. (£3—£15 approximately) a year according to income, will be added to the insuree's income tax bill. For that he will receive free hospital treatment, cheap medicines, reduced doctors bills and sick pay if his illness prevents him from working. The State is paying 75 per cent. of the cost of medicines prescribed for him by his doctor, provided they cost more than 3 Sw. Cr. If they cost 3 Sw. Cr. or less, he must pay for them himself. He must also pay himself the remaining 25 per cent. of the cost of the dearer medicines. If he is suffering from one of fifteen listed serious diseases (such as diabetes or tuberculosis) he will receive his medicines entirely free. Sick pay, like the contributions, is also graded according to income and ranges from

3 Sw. Cr. to 20 Sw. Cr. a day. Other benefits include free pre-natal care and maternity grants. Doctors send bills to insured patients in the usual way. The patients submit the bills to the national health authorities who refund 75 per cent. of the amount. There is a maximum fee which doctors are deemed to charge per visit. The scheme includes special treatments such as physiotherapy, but does not provide for free spectacles, false teeth or artificial limbs. An article on the scheme was published in the *C. & D.*, October 3, p. 355.

FOLKESTONE CONGRESS Cancellation announced

THE Franco-British Pharmaceutical Commission announced on January 3 that it had been found necessary to cancel the congress that was to have been held in Folkestone, April 15-18. The statement points out that information received from France has indicated that the date presents unforeseen difficulties in connection with school holidays which will prevent the attendance of a representative French delegation. Since the general assembly of the International Pharmaceutical Federation is being held in London later in the year, postponement to a later date is unfortunately not practicable. The Commission expresses its regret, particularly to the Folkestone Branch of the Pharmaceutical Society and to the mayors of Sandwich, Dover and Folkestone who had shown great interest in the proposed Congress.



“BANGER OF BOTTLE BOTTOMS”: Mrs. Eveline McNeil (Benger Laboratories, Ltd.), who was featured in recent “What's My Line?” television programme, was described as a “bottle bottom banger.” Her function is to test, for vacuum, bottles of injection solutions.

TOKEN IMPORTS

Scheme to continue in 1955

THE Token Import scheme for imports of goods from Canada and the United States of America is continuing in 1955, but quotas are remaining at the same level as in 1954 (30 per cent. by value of the average exports of the commodity in question to the United Kingdom in 1936-38). The scheme will cover the same goods as in 1954 except for the reinstatement of a few minor items that were deleted at the end of 1947. The total value of goods imported under the scheme is about £3 millions a year.

SULPHUR SUPPLIES

Higher U.K. imports in 1954

THE United Kingdom, which depends on the United States to fill about one-third of its sulphur needs imported about 400,000 long tons from that country in 1954, or approximately 200,000 tons more than in 1953. According to a major U.S. producer and exporter of crude sulphur, the U.S. industry broke all past production records in 1954 with an estimated 6·6 million long tons, most of which came from Louisiana and Texas. In 1955 there should be sufficient productive capacity to satisfy all domestic and export demands.

LONDON PHARMACY FIRE

Stock-room badly damaged

FIRE broke out in a basement stock-room in the branch of Boots, Ltd., in Regent Street, London, on December 31, 1954. A serious fire was averted by the prompt action of several porters, who fought the flames with extinguishers and buckets of water, and of the London Fire Brigade, which arrived within a few minutes of receiving the alarm. About ten fire engines were present at the fire, which was under control within about an hour. The stock-room and its contents were badly damaged and a stairway was burned but business was resumed later in the day. When the alarm was

given, customers and staff, including about 100 women assistants, had to leave the five-story building.

RADIOACTIVITY

Lectures on isotopes

A COURSE of six lectures on the use of radioactive isotopes in biology and medicine is being held at the North-west Kent College of Technology, 7.30-9.30 p.m., on Mondays, commencing on January 24. The lectures are being given by Drs. E. H. Belcher, M.A., Ph.D., and N. G. Trott, B.Sc., Ph.D. (Institute of Cancer Research, Royal Marsden Hospital, London, S.W.3), and are being accompanied by practical demonstrations and films. The synopsis includes fundamentals of radioactivity, production and measurement of radioactive isotopes, assay of radioactive samples, protection of personnel, disposal of radioactive wastes, application of isotopes in medicine, biology and physiology, and special techniques using radioactive isotopes. The fee for the course is 20s. Further particulars may be obtained from Mr. J. R. Barr, head of the science department, North-west Kent College of Technology, Essex Road, Dartford.

DIPHTHERIA

More immunisations needed

IF the present freedom from diphtheria is to continue the number of immunised children under five, and particularly under one, need to be substantially increased. That is the view of the London County Council's medical officer of health and principal school medical officer in his report for 1953, published recently. The report states that, at the end of 1953, the proportion of children under five who had been immunised against diphtheria had fallen to a little over half and was at its lowest level since the immunisation scheme came into full operation. The number of vaccinations of children under one year against smallpox had increased steadily and in 1953 approximated to one-half of the total live

births. The fall in the death rate from tuberculosis was maintained during 1953. The number of confirmed cases of poliomyelitis was slightly higher than in 1952 but was considerably lower than for the epidemic years of 1947, 1949 and 1950. Following the smoke-fog at the end of 1952 there was an outbreak of influenza during the first quarter of 1953, and there were 514 deaths from influenza during the year compared with 162 in 1952. The incidence of dysentery and whooping cough were relatively high during the year. A special feature of the report is the section dealing with the work of the chemical branch of the Public Health Department which gives a full account of the historical and other major developments in the use of chemistry and allied sciences in the service of the population of London from 1869 to the present day. The report is published by the London County Council, price 2s. 6d.

EXAMINATION RESULTS

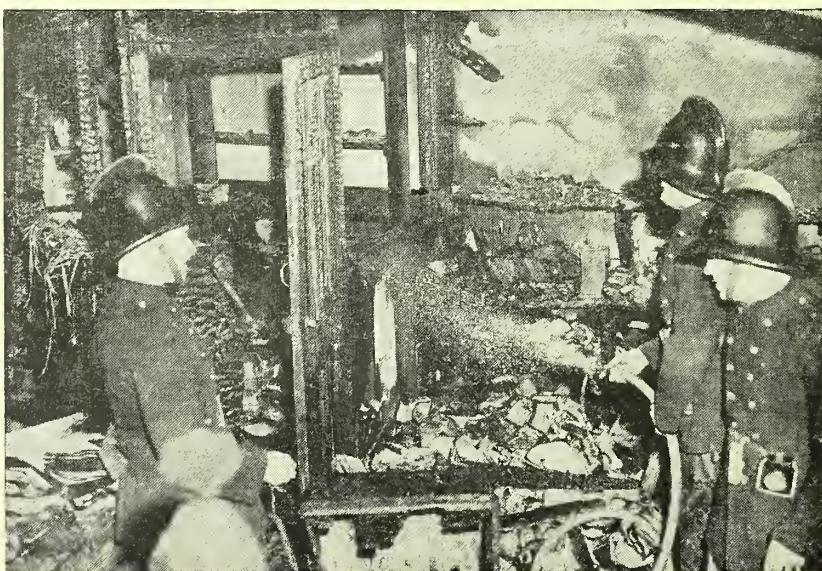
England and Scotland

THE following candidates satisfied the examiners in the Intermediate examination held by the Pharmaceutical Society in England and Wales in December 1954:—

ASHTON, Patricia, Birmingham; BARTON, D. V., Cricklewood, London; BEYNON, Janice G., Swansea; BLAKE, Shirley K. A., Dartford; BOUGH, Joan E., Leeds; BROOKS, F. H., Sydenham; CARTER, Charlotte A., York; CHAWLA, A. R. S., Leicester; CHURCH, Sylvia M., Barry; COOPER, Valerie M., Southport; CRAIG, Clare, Ramsgate; DAVIDSON, Irene W., Southampton; DAVIES, A., Resolven; DAVIS, G., Leicester; DAW, Arlette S., Ivybridge; DE ROME, Olive M., Hyde; EDWARDS, A. J., Manchester; ENNION, Barbara, Stockport; EYRE, Margaret D., Northampton; FISHER, Gillian, Birmingham; FOSTER, Marian, Pontypool; GATHERIDGE, June A., Barry; HALE, N., Nottingham; HEATH, D., Leeds; HODGSON, Margaret J., Dartford; HOLMES, C. L., Leeds; HUGHES, J. H., Wrexham; JONES, G. W., Llandaff; JONES, T. O. W., Kensington, London; LOCKER, B. M., Burton-on-Trent; MASON, Anne J., Northampton; MEHTA, C. A., Portsmouth; NETHERCOTT, Margaret E. M., Saltash; PALMER, A. J., Parkstone; POWRIE, A. F., Bexleyheath; PULLEN, N. A., Whitton; RAWLE, R. P., Cheadle Hulme; SAGOE, T. E. C., Knightsbridge, London; SMITH, L. G., Birmingham; SMITH, Suzanne G., Birmingham; SOLLY, B. F., Ramsgate; STEVENS, D. J., New Eltham; TASKER, Alison, Bury; TAYLOR, S. J., Mansfield; TAYLOR, Teresa M., Chatham; THOMPSON, H. P., Stoke-on-Trent; TOMLINSON, G. W., Nottingham; WILCOCKSON, W. G., Bulwell; WILLIAMS, J. A., Sidcup; WILLIAMS, J. B., Southampt; YATES, G., Manchester.

The following candidates satisfied the examiners in the Intermediate examination held in Scotland in December 1954:—

BULLOUS, G. H., Sheffield; BUTHLAY, Margaret M., Aberdeen; DALES, C. H., Spalding; DAVIDSON, Irene, New Deer; DOTT, J. A., Dundee; FOX, Catherine L., Hexham; HELLAWELL, B., Huddersfield; MOORE, Patricia, Whitley Bay; OXLEY,



LONDON PHARMACY FIRE: Firemen at work putting out smouldering wood panelling in a section of the burnt-out stock-room in the branch of Boots, Ltd., in Regent Street, London. (Report above.)

Doris M., Bolden Colliery; THORP,
Marianne D., Sunderland.

IRISH NEWS

EXAMINATION RESULTS

SUCCESSFUL candidates at the December 1954 examinations of the Pharmaceutical Society of Northern Ireland were:—

Final qualifying (Part II), Ian G. Bowman; John N. Deehan; Denis McG. Oougherty; James S. Dundee; Celine M. Gorman; John A. Houston; George Kirk; Beverley Lowans; Malachy S. McCullagh; Neal J. McKenna; Ronald W. Magowan; Hugh News; Patrick O'Doherty; Eileen N. O'Hare; Edmund E. Richey; John R. M. Sinton; Anna Sullivan; Charles E. Taylor Nobbs; Robert Thompson; Joseph B. Ward; William Woodside.

Preliminary scientific (Part I), Isaac J. Boal; David H. Coffey; Thomas Connolly; Edward J. Crossin; Kenneth J. Dickson; Bridget M. R. Donnelly; James M. Dougan; John C. Gouk; Lewis Hanna; Henry G. Henderson; Josephine C. Hendron; John G. Hutchinson; Kenneth F. Kerr; Patrick S. Lavery; Helen M. Leech; Hugh G. McCafferty; Margaret E. McClelland; Charles A. McKernan; Felix McNally; Denis M. McNamey; Bernard C. Murphy; James J. Murtagh; Malcolm V. A. Napier; John C. O'Brien; William A. Ritchie; William G. Rodden; Aileen E. Rooney; John J. Sharkey; Kevin E. J. Shields; Carol Walsh; Margaret J. Watson; Cecil Watt; Norman P. Weir; Sadie Wilson.

ROTA SERVICES

COMPLAINTS that ordinary sales were being made in some chemists' shops during rota hours in a provincial town were discussed at a meeting of the Northern Ireland General Health Services Board in Belfast on December 29. The complaints were made in a letter from the town council which stated that 7-8 p.m. rota services on weekdays would be more suitable than the present 8-9 p.m. service, and requested the Board to revise the arrangements for rota services accordingly. It was unanimously agreed to inform the council that the time was inopportune to consider altering the existing arrangements that had been decided upon by the Board as the most suitable.



Personalities at recent photography-after-dark exhibition in Dublin. Mr. Kevin MacDonnell, who lectured on flash photography, with an interested visitor to the exhibition, Mrs. MacDonnell, and Mr. Ben Proper (export manager, Johnsons of Hendon, Ltd.). The exhibition which ran for two evenings at the O'Connell Hall, Dublin, attracted packed audiences of professional and amateur photographers. All the leading manufacturers had stands.

TOPICAL REFLECTIONS

By Xrayser

The Modern Age

The rapidity of the production of new remedies, resulting from the constant search for the modern equivalent of the elixir of life, is equalled only by the speed with which these same remedies vanish from the medical repertoire. The shelves of the pharmacist provide a striking verification of that statement. A careful survey of his stock will provide the average pharmacist with many examples of items which, only a year or two ago, were in constant demand. Now, alas, many of those much-vaunted and frequently prescribed preparations, most of them quite expensive, have been supplanted by still newer and better short-cuts to health, and the hero of yesterday is forgotten. For all the opportunity it may have of being prescribed, it might be relegated to that shelf which already gives eventide accommodation to tinct. rhus. tox. and Aethiop's mineral. The striking difference is that the new "rejects" have lost their reputation in two or three years, whereas the old friends in the shop rounds maintained their status for as many centuries. One of the disquieting features of the present "off with the old and on with the new," is that more often than not the newer preparations are in one of the poison schedules and cannot be sold. Moreover, they have not been bought speculatively—they have been ordered to meet a specific, if ephemeral, demand. The value of such drugs is considerable.

An Earlier Age

These observations came to mind when I was reading a century-old family herbal containing a remark by Sir John Hill to the effect that, though it had been the custom to attribute too many virtues to plants, "the present use of chemical preparations has almost driven the whole galenical medicine out of our minds." Musing on that opinion, I was led by easy stages to the conclusions expressed in my first paragraph. In the early nineteenth century a revolution was beginning to take place. The time-honoured herbal remedy was losing ground to the more extensive use of chemicals. But though Sir John so expressed himself, the obsession with chemicals which he apparently feared, was to lead to a greater use of a combination of both worlds. It must be remembered that in the early decades of last century, the people were not well provided for in the matter of doctors and chemists, and frequently the lady of the manor provided the medicine chest, being in herself something of a botanist, and well acquainted with the processes of maceration and distillation. The herbs were gathered in the fields and hedgerows, and the cordials and tinctures, syrups and ointments, were made in the kitchen and distributed at need. Life in those more spacious days must have been interesting, if fleeting.

The Nose

How far are we in danger of losing that other sense in regard to the additional check on medicines? In these days of tablets, suspensions and elixirs of the most elegant, we no longer require our sense of smell as a confirmatory test. And, to a large extent, the pharmacy no longer has that distinctive aroma which was the compound of fresh-infusions, camphor, cinnamon-water and the like. It was subtle; it was elusive; and the older pharmacist used to carry home the aura to the bosom of his family. Not all of the smells were fragrant, however. There were, for example, pills of zinc valerianate. It was usually a warm day, and the bus was invariably crowded, and you sensed an attitude, on the part of the fellow-passengers, that the least you could have done was to walk home. But what, after all, constitutes a nice smell? We read that the smell of musk and other perfumes is unpleasant to those not used to such things, and that the patricians of ancient Rome seasoned their food with asafoetida. Addicts of the medicine-bottle have been known to ask for repeats of valerian mixtures. Perhaps it was only ignorance that caused the passengers to open the windows and look unhappy.

DUBLIN FAIR TRADE COMMISSION

Resumption of inquiry

THE Fair Trade Commission resumed in Dublin on January 3 its inquiry into the supply and distribution of proprietary and "patent" medicines, infant foods, and medical and toilet preparations (see *C. & D.*, December 11, 1954, p. 589).

The first witness called was MR. PATRICK S. O'HAIRE (Ovelle, Ltd., Dundalk) who said that his firm confined their preparations exclusively to wholesale and retail chemists. Discounts were allowed for cash according to the quantity of goods purchased. The firm's price arrangements were not subject to agreement with any association, or any other traders. When the company had a fixed price for an article they expected all retailers to adhere to that price.

Asked by THE CHAIRMAN (Mr. J. C. McCarthy) if branded goods sold to his firm by some English manufacturers were subject to a price direction from the sellers, MR. O'HAIRE said that that was not so; the firm fixed their own prices for everything. They notified the Irish Drug Association of price changes. His firm had had requests from the Wholesale Grocers' Association for supplies of their products, but on each occasion that Association was informed that supplies were limited to chemists.

Cortisone Sales

MR. JOHN P. HOLLAND (managing director, P. C. Cahill & Co., Ltd.) said that when his firm were asked to take over an agency for some well-known product they stipulated that it would be distributed only through chemists. He did not agree that his firm was in a position to dictate terms to manufacturers. He would not describe adherence to prices as "a cut and dried policy." Prices were fixed after consultation between the manufacturer and agents. Regarding his firm's agency for cortisone, Mr. Holland said that they had approached the Department of Finance on the matter of goods purchased for dollars. His firm had been asked by the Department of Health about the channels for cortisone distribution, and the safeguards to be taken. The price of cortisone was referred to by the Department of Health, which asked his firm to keep records of sales of the drug.

MR. DENIS MCARDLE (Dundalk Chemicals, Ltd.) said his firm manufactured disinfectants and other lines and sold under contract to public transport companies and to wholesalers. They had no sales to retailers. A customer was never asked if he was a member of the Wholesale Drug Federation. They had no approved list and no agreement with any other manufacturers of the same lines. His firm would supply anybody inside or outside the Wholesale Drug Federation.

MR. PATRICK MURPHY (Sandoz Products (Ireland), Ltd.) said that they supplied their products to wholesale firms and suggested a retail price. He

thought that was the general policy of his firm throughout the world.

MR. GEOFFREY MARTIN (Imperial Chemical Industries, Ltd.) said that his firm manufactured proprietary and "patent" medicines and ethical preparations. Broadly, they specified the retail prices for proprietary medicines. That, he suggested, was the normal business practice in the pharmaceutical trade throughout the world. His firm did not like retailers charging other than the stipulated prices, but they would not take any positive action if they did not do so.

MR. ALEXANDER G. BROWNLEE (director, Boileau & Boyd, Ltd., Dublin) said that as a director he took full responsibility for the memorandum submitted by his firm.

Similar Replies

When THE CHAIRMAN said that the wording of the replies received from some of the wholesale firms was almost identical, MR. J. J. HENRY (counsel for Wholesale Drug Federation) said that the secretary (Mr. R. A. Kidney) did a draft scheme of replies which he submitted to all his members.

Relying to THE CHAIRMAN, MR. BROWNLEE said that if, as agents for a particular line, they sold to other wholesalers, they would regard it as ridiculous if some of those wholesalers sold to retailers at a price less than that at which they wholesaled the same line themselves.

When THE CHAIRMAN commented that there was a big difference between the bulk price paid for such lines as cod-liver oil and liquid paraffin and the price charged retail per bottle, MR. BROWNLEE said that there was a very high labour factor involved. As between one supplier and another of cod-liver oil there was little variation in price. The wholesalers' federation agreed upon prices for thirteen packed lines, including cod-liver oil and liquid paraffin, for the sake of uniformity. He did not think that that practice affected the public interest. Ethical lines were not generally advertised as they were mainly used in prescriptions. The small sale direct to the public would scarcely justify advertising.

MR. DOMINIC DOLAN (Dominic Dolan & Son, Dublin) said that his firm had been refused supplies on wholesale terms by Bayer Products, Ltd., and by Ward, Blenkinsop & Co., Ltd., because his firm were neither members of the Wholesale Drug Federation nor approved by the Irish Drug Association.

MR. CARL QUINN (Ward, Blenkinsop & Co., Ltd.), when questioned by THE CHAIRMAN regarding a letter to Messrs. Dolan, said that as a servant of the company he was not competent to answer questions arising out of that.

MR. BROWNLEE (Messrs. Boileau & Boyd, agents for Ward, Blenkinsop & Co., Ltd.) said that the letter sent to Messrs. Dolan was intended to indi-

cate who were the normal pharmaceutical wholesalers. The decision not to supply Messrs. Dolan arose out of joint discussions between Messrs. Ward, Blenkinsop and his firm.

MR. DOMINIC DOLAN, recalled, admitted that a letter had been written by him to Bayer Products, Ltd., requesting that Bayer lines should be supplied to him to fill hospital orders. In that letter he had said that he would give a guarantee not to supply pharmaceutical chemists "to get over the difficulty with the Wholesale Drug Federation."

MR. A. O'KEEFE (counsel for the I.D.A.) said that the Irish Drug Association took a strong line to the effect that Messrs. Dolan were conducting a retail business, despite the fact that they stated that they conducted a wholesale business only.

MR. G. ENNIS (Greenmount Oil Co.) gave evidence that his firm sold liquid paraffin at 9s. 1d. per gall. in six-drum lots; 9s. 3d. in 3-drum lots, and 9s. 6d. per gall. per single drum.

MR. SAMUEL McCUALEY (director, Irish Pharmaceuticals, Ltd.) said that there was plenty of competition in such lines as cod-liver oil and liquid paraffin from wholesale firms outside the Wholesale Drug Federation. For the quality of their packed goods and the service they gave the chemist he thought that the prices charged by the wholesale chemists were very fair.

WILLS

MR. F. APPLEYARD, M.P.S., 290 Carrbottom Road, Bradford, left £3,671 (£2,876 net).

MR. S. M. NORTHEY, M.P.S., Turret House, Bodmin, Cornwall, left £13,592 (£13,106 net).

MR. J. W. BANBURY, M.P.S., 274 Biscot Road, Luton, Beds, left £3,202 (£2,775 net).

MRS. H. S. JOHNSON, M.P.S., 21 Midway Road, Leicester, left £15,136 (£15,022 net).

MR. C. MARSHALL, M.P.S., 3 Victoria Terrace, Alexandra Parade, Dunoon, left £70,569.

MR. B. L. DRAKE, F.C.I.S., 16 Pearl Court, Eastbourne, Sussex (formerly chairman, Ilford, Ltd.) left £86,553 (£86,278 net).

MR. R. W. JORGENSEN, Maywood, Hawthorne Avenue, Bromley, Kent (a director, Johnsen & Jorgensen, Ltd.) left £86,580 (£81,260 net).

MR. D. F. KYBERT, 5 Westford Way, Ruislip, Middlesex (a director, Cheshborough Manufacturing Co., Ltd.) left £5,165 (£5,043 net).

MR. DONALD McARTHUR, M.P.S., 22 Seaview Road, Brightlingsea, Essex, left £1,423 (£1,388 net).

MR. G. T. PHILLIPS, 302 Regents Park Road, London, N.3, who qualified as a chemist and druggist in 1897, left £1,286 (£1,211 net).

MR. S. SHELLEY, Colton, Mountford Lane, Bilsthorpe, Staffs (former managing director, Samuel Shelley, Ltd., chemists) left £9,913 (£8,796 net).

SIR WALLACE AKERS, C.B.E., F.R.S., Yledyn, Kings Road, Alton, Hants (a director, Imperial Chemical Industries, Ltd.) left £36,554 (£36,486 net).

MR. A. S. W. JOHNSON, M.P.S., Brynhill, St. Edeyrn's Road, Cyneoed, Cardiff (chairman and managing director, Robert Drane, Ltd., chemists, Cardiff) left £61,573 (£61,148 net).

MR. H. B. STEVENS, O.B.E., F.R.I.C., F.P.S., F.C.S., 17 Park Gate Road, Wallington, Surrey (a director, John Bell, Hills & Lucas, Ltd.) left £10,281 (£10,032 net).

COLOURINGS IN FOODS

Recommendation to restrict use
SPECIFIED colours only should be permitted to be used in foods, according to a report presented to the Food Standards Committee of the Ministry of Food by its preservatives subcommittee and approved by the Minister of Food for publication. The subcommittee has inquired into the desirability of colouring foods and has considered whether the present system of control by means of a list of prohibited colours should be continued or be replaced by a list of permitted colours, what colours should be prohibited and whether the addition of colour to any particular food or class of foods should be prohibited. A panel of medical members of the subcommittee has examined the pharmacological evidence on the colours used in foods and their findings are given in an appendix to the report. A survey of coal-tar colours, with special reference to the pharmacological aspect, is presented in another appendix.

Subcommittee's Proposals

The following are the subcommittee's recommendations:—

- (i) The Public Health (Preservatives, etc., in Food) Regulations 1925-1953 should be amended so as to permit the use in foods of specified colours only;
- (ii) For the present, official approval should be given only to the colouring matters listed (see tables);
- (iii) The colours may be used either singly or in any combination;
- (iv) Specifications of purity should be prescribed and published for each colour;
- (v) The list of specified colours should be reviewed after a suitable period (say five years) in the light of any further evidence then available, subject to which, and provided there is a demonstrable need, colours may be added to or deleted from the list at any time;
- (vi) Colours, other than for marking purposes, should not be permitted to be used in milk, or in or upon meat, game, poultry, fish, fruit, vegetables, sold in the raw or unprocessed state;
- (vii) In general, notification of the presence in foods of added colour should be given to the purchaser;
- (viii) Colours sold for use in food should be appropriately labelled;
- (ix) Any regulations that may be made as a result of these recommendations should apply also to imported foods.

The first table in the column alongside shows the list of permitted colours of natural origin and the second table shows the list of permitted synthetic colours.

Representations on the recommendations should be sent to the Joint Secretary, Preservatives Subcommittee, Ministry of Food, Great Westminster House, Horseferry Road, London, W.1, not later than March 31. Copies of the report may be obtained from H.M. Stationery Office, price one shilling.

APPROPRIATE DESIGNATION	SOURCE
Aikannet	Roots of <i>Alkanna tinctoria</i> .
Anatto	Seed pods of <i>Bixa orellana</i> .
Caramel	Heated sugar.
Carotene	Carotenoid matter from leaves and vegetables.
Chlorophyll	Green colouring matter from the leaves, etc., of plants.
Cochineal	Female insect <i>Coccus cacti</i> .
Flavine	Quercitron bark.
Orchil	Lichens of the species <i>Roccella</i> .
Persian berry	Berries of the Buckthorn (<i>Rhamnus</i>) family.
Saffron	Styles and stigmas of <i>Crocus sativus</i> .
Turmeric	Rhizomes of <i>Curcuma longa</i> .
Bole or Iron oxide.	Armenian bole or prepared ferric oxide.
Carbon black	Pure finely divided carbon.

APPROPRIATE DESIGNATION	SCIENTIFIC NAME	COLOUR INDEX (1924) No.
Red 1	di-sodium salt of <i>m</i> -xylene-azo- β -naphthol-1:3:6-disulphonic acid.	79
Red 2	tri-sodium salt of 4-sulpho- α -naphthalene-azo- β -naphthol-6:8-disulphonic acid.	185
Red 3	di-sodium salt of 4-sulpho- α -naphthalene-azo-1-naphthol-4-sulphonic acid.	179
Red 4	tri-sodium salt of 4-sulpho- α -naphthalene-azo- β -naphthol-3:6-disulphonic acid.	184
Red 5	di-sodium salt of benzene-azo-8-amino-1-naphthol-3:6-disulphonic acid.	30
Red 6	sodium (or potassium) salt of tetra-iodofluorescein.	773
Red 7	hydrochloride of diethyl- <i>m</i> -amino-phenolphthalein.	749
Red 8	di-sodium salt of benzene-azo-8-acetylamino-1-naphthol-3:6-disulphonic acid.	31
Red 9	di-sodium salt of <i>p</i> -acetylaminobenzene-azo-8-acetylamino-1-naphthol-3:6-disulphonic acid.	57
Red 10	di-sodium salt of sulphobenzylaminothiocresol-azo-1-naphthol-4-sulphonic acid.	225
Red 11	di-sodium salt of 2-(5-sulpho-2:4-xylylazo)-1-naphthol-4-sulphonic acid.	—
Red 12	di-sodium salt of 1-pseudocumylazo-2-naphthol-3:6-disulphonic acid.	80
Red 13	ethyl-ester of diethyldiamino- <i>o</i> -carboxyphenyl-xanthenyl chloride.	752
Orange 14	di-sodium salt of benzene-azo-2-naphthol-6:8-disulphonic acid.	27
Orange 15	sodium salt of benzene-azo-2-naphthol-6-sulphonic acid.	26
Yellow 16	benzene-azo-resorcinol.	23
Yellow 17	tri-sodium salt of 4- <i>p</i> -sulphobenzene-azo-1- <i>p</i> -sulphophenyl-5-hydroxy-pyrazol-3-carboxylic acid.	640
Yellow 18	di-sodium (or potassium) salt of 2:4-dinitro-1-naphthol-7-sulphonic acid.	10
Yellow 19	di-sodium salt of 4- <i>p</i> -sulphobenzene-azo-1- <i>o</i> - <i>m</i> -dichloro- <i>p</i> -sulphophenyl-3-methyl-5-hydroxy-pyrazol.	639
Yellow 20	di-sodium salt of <i>p</i> -sulphophenyl-azo-sulphomethyl-amino-benzene.	—
Yellow 21	di-sodium salt of <i>p</i> -sulphobenzene-azo-resorcinol-sulphonic acid.	—
Yellow 22	di-sodium salt of 1- <i>p</i> -sulphophenyl-azo-2-naphthol-6-sulphonic acid.	—
Yellow 23	4- <i>m</i> -xylylazo-1-phenyl-3-methyl-5-pyrazolone.	—
Green 24	sodium salt of tetramethyldiamino-diphenyl- β -hydroxynaphthyl-carbinol disulphonic acid anhydride.	737
Blue 25	sodium salt of tetraethyldiamino-triphenyl-carbinol disulphonic acid anhydride.	672
Blue 26	di-sodium salt of indigo-5:5-disulphonic acid.	1180
Violet 27	sodium salt of dibenzyltetraethyltriaminotriphenylcarbinol disulphonic acid anhydride.	698
Violet 28	sodium salt of dibenzyldiethyldimethyltriamino-triphenyl-carbinol disulphonic acid anhydride.	697
Brown 29	A mixture consisting essentially of the di-sodium salt of 4:6-di(<i>p</i> -sulphophenylazo)-1:3-diamino-benzene; and the mono-sodium salt of 5(<i>p</i> -sulphophenyl azo)-2:4-diamino-toluene.	—
Brown 30	The product of coupling diazotised naphthionic acid (1-naphthylamine-4-sulphonic acid) with a mixture of morin (C.I. No. 1232) and maclurin (penta-hydroxy-benzophenone).	—
Brown 31	The di-sodium salt of bis-4-sulpho-1-naphthalene-disazo-2:4-dihydroxybenzyl alcohol.	—
Brown 32	tetra-sodium salt of diphenyl-disazo-bis(- <i>m</i> -phenylenediamine-disazo- <i>bis-p</i> sulpho-benzene).	—

COMPANY NEWS

EVANS GRAY & HOOD, LTD.—Messrs. W. T. Collison (manager) and A. L. W. Sachs have been elected to the board.

CHARLES PFIZER & CO., INC., Brooklyn, U.S.A.—Mr. Richard C. Fenton, M.A., has been elected vice-president in charge of the Corporation's European operations.

WILLOWS FRANCIS PHARMACEUTICAL PRODUCTS, LTD.—The resolution that the name of the company be changed to Willows Francis, Ltd. (see *C. & D.*, November 6, 1954, p. 462), was approved after the annual meeting on December 29, 1954.

SMITH & NEPHEW ASSOCIATED COMPANIES, LTD.—Mr. L. F. Long (assistant managing director, T. J. Smith and Nephew, Ltd.), has been appointed a director of the parent company. Other appointments on the board of the associated companies are: Mr. H. N. Smith, president; Mr. G. E. Leavey, chairman; Mr. R. T. Outen, deputy-chairman; Mr. G. Whittaker, managing director. Mr. Samuel Lovatt retired on December 31, 1954.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Mr. Clifford Paine (chairman of the Dyestuffs Division) and Mr. William Donald Scott (a managing director of the Billingham Division) have been appointed to the board of Imperial Chemical Industries, Ltd., as executive directors. — Mr. William Joseph Victor Ward (technical director, Billingham Division) has been appointed chairman of the division in succession to Dr. Geoffrey Isherwood Higson, who is retiring. The appointment is effective from February 1.

New Companies

P.C. = Private Company; R.O. = Registered Office.

L. S. RAY, LTD. (P.C.)—Capital £2,000. To carry on the business of wholesale, photographic and dispensing chemists, etc. Director: Leonard Stanley Ray, M.P.S., 57 West Avenue, South Shields.

MERCER & BIRCH, LTD. (P.C.)—Capital £3,500. To carry on the business of wholesale or retail chemists, etc. Directors: Edith D. Mercer, Margaret Gardner, Francis Birch, F.P.S., and Mary Birch. R.O.: 9 Queen Street, Gt. Harwood, Lancs.

BUSINESS CHANGES

THE buying organisation of Timothy Whites & Taylors, Ltd., Burley Hill, Leeds, 4, has been transferred to a wholly-owned subsidiary — Timothy Whites Wholesale, Ltd. Orders from the London buying office or from branches are also being made out in that name under the new purchase tax registration number Leeds 2575.

CHAMBERLAIN CHEMICAL CO., LTD., is the new title adopted by Dr. Earl S. Sloan, Ltd. The products of the company will continue to be sold by the associated company, William R. Warner & Co., Ltd., Power Road, London, W.4. The trade mark Vince, previously owned by Vince Laboratories, Ltd., has been assigned to Chamberlain

Chemical Co., Ltd. The product will continue to be sold by Messrs. Warner.

ALBRIGHT & WILSON, LTD.—The selling organisation of the company's subsidiary, Thos. Tyer & Co., Ltd., Stratford, London, E., has been moved to 49 Park Lane, W.1, where a fine chemicals division of the parent company is to be set up under the direction of Mr. A. W. R. Chandler. From January 1, goods supplied by Thomas Tyer & Co., Ltd., should be ordered from, and will be invoiced by, Albright & Wilson, Ltd. Similarly, purchases made by the subsidiary will be placed by, and should be invoiced to, Albright & Wilson, Ltd.

Appointments

VITAMINS, LTD., Upper Mall, London, W.6, have appointed Mr. Richard Toy their representative in the Birmingham area.

DELAVELLE (G.B.), LTD., 38 Orsman Road, London, N.1, have appointed Mr. F. W. Kempton their export manager.

GLAXO LABORATORIES, LTD., Greenford, Middlesex, have appointed Mr. L. F. Kitch, M.P.S., manager of their home sales department.

DEXION, LTD., 65 Maygrove Road, London, N.W.6, have appointed Mr. Roy Townsend (formerly assistant sales controller, H. W. Carter & Co., Ltd.), their advertising and sales promotion manager from January 1.

JOSEPH CROSFIELD & SONS, LTD., Warrington, have appointed Mr. David Sinclair their assistant sales manager, southern area. Mr. Paul Mangan, who has assisted Mr. Sinclair in the company's chemical advertising, is appointed advertising manager from January 1.

AYRTON, SAUNDERS & CO., LTD., 34 Hanover Street, Liverpool, 1, have appointed Mr. H. M. Torry manager of their sundries department. Mr. G. M. Owens is to represent the company in the south Liverpool and Southport areas in succession to Mr. M. A. Shackleton, who has retired.

OVERSEAS VISIT

MR. ALAN MELBOURNE (export sales manager, Joseph Crosfield & Sons, Ltd., Warrington) is to visit markets in the Mediterranean and Middle-East areas during February and March in connection with the sales of Crosfield silicates, detergents and ion exchange materials. Countries to be visited include Egypt, Sudan, Lebanon, Turkey, Greece, Cyprus, Malta, Libya, French Morocco, Gibraltar and Portugal.

DEATHS

ADAMS.—On December 13, Mr. Frank Richard Adams, F.P.S., Church Street, Spilsby, Lincs, aged seventy-two. Mr. Adams qualified as a chemist and druggist and passed the Pharmaceutical Chemist examination in 1904.

BOWEN.—On December 29, Mr. John Bowen, M.P.S., Castle Hill, Bangor, Caernarvon, aged eighty-two. Mr. Bowen was the founder of Bowen & Ellis, chemists, Bangor, in 1898.

CAMPBELL.—On December 24, Mr. Owen Campbell, M.P.S., 156 Knowsley Road, St. Helens, Lancs, and formerly 115 Dale Street, Liverpool, 2, aged fifty-five.

DRAPER.—On November 1, Mr. Deric Draper, M.P.S., c/o Lennon, Ltd., Bulawayo, Southern Rhodesia. Mr. Draper qualified in 1923.

FEARN.—On December 25, Mr. Philip Henry Fearn, 23 Burton Stone Lane, York, aged sixty-four. Mr. Fearn was the representative in the West Riding of Yorkshire and Lincolnshire of Bleasdales, Ltd., manufacturing chemists. He recently completed fifty years' service with the firm.

FLEMONS.—At Luton and Dunstable Hospital on December 22, Mr. R. G. Flemons, aged sixty-one. Mr. Flemons was a director of Joseph Flemons & Sons, Ltd., wholesale herb merchants, Dunstable, Beds. He is survived by his widow and a son.

GALE.—(See *C. & D.*, January 1, p. 7). Mr. C. Condy U'Ren, M.P.S., writes: Bill Gale was a friend of mine for over thirty years. We first met when he came to serve his apprenticeship with my father. I liked him from the beginning and he was popular with everyone with whom he came into contact, my family, the staff and customers alike. Since those early days our friendship has grown stronger and I had a great respect for him and his opinions. His cheery smile, unfailing good humour, and even temperament, endeared him to all who knew him. He was a worker, not for himself alone, but for his brother pharmacists and other good causes, and whatever he did was done well. I cannot express my appreciation of him better than has a mutual friend who has written to me—"He was so much that many of us would like to be."

GRIMWADE.—On December 16, Mr. Edward Elliston Grimwade, M.P.S., Athnowen, Combe Martin, Devon, aged seventy-six.

HARRISON.—Suddenly, on December 30, Mr. R. S. Harrison, Ruislip, Middlesex, aged sixty. Mr. Harrison had been a director of MacAndrews & Forbes, Ltd., merchants, London, S.W.1, for twenty-three years.

HUNTER.—At Taynuilt, Newtown St. Boswells, Roxburghs, on December 23, Mr. William Wight Hunter, M.P.S., aged eighty-one. He was in business at Newtown St. Boswells for twenty-two years. He was also in business at Fraserburgh and Edinburgh.

KENNEY.—On December 1, Mr. George William Kenney, M.P.S., Fernlea, Oaks Lane, Willington, Derby, aged eighty-two.

RONDER.—On December 12, Mr. Alexander Israel Ronder, M.P.S., 98 Mayfield Road, Edinburgh, 9, aged fifty-eight.

SCOTT.—On November 3, Mr. William Reid Scott, M.P.S., Leswalt, Stranraer, Wigtownshire. Mr. Scott qualified in 1904.

SMITH.—On December 17, Mr. Leonard Smith, M.P.S., 17 Holdenhurst Road, Lansdowne, Bournemouth, Hants, aged sixty-five.

TRADE NOTES

Tax-free Pack.—Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, announce that Bena-Fedrin is now available in a tax-free bottle of 16 fl. oz.

In Larger Spray Container.—T. L. Benton & Co., Ltd., 186 Seven Sisters Road, London, N.7, are now marketing their Chandau lacquer in a larger spray container at the old price.

Choice of Colours.—Gala face compact is available in plastic cases in tortoiseshell, pearl ivory or pearl grey colours. The manufacturers are Gala of London, Ltd., Hook Rise, Kingston By-pass, Surbiton, Surrey.

New Pesticide Formulations.—Secto Co., Ltd., Shaw Street, Blackburn, announce the introduction of a new beetle and cockroach powder, and of a slug and snail killer containing metaldehyde. Their Secto ant killer is now available in a larger size.

Alkali-free Soap.—M. & R. Norton, Ltd., Adriant Works, 9 Park Hill, London, S.W.4, have been appointed sole agents for Great Britain and the British Empire for a new soap, named Neutrogen, imported from Belgium. Neutrogen is claimed to be the only soap in the world with a pH value 7.5 (practically neutral). Its effect on the skin is non-drying. Even teeth may be cleaned with it. The soap is lightly perfumed with violet.

Sole U.K. Distributors.—Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, have been appointed sole distributors in the United Kingdom, South Africa and New Zealand of Nujol, cream of Nujol, Mistol nasal drops and Mistol nasal drops with ephedrine. Trade and retail prices of the Nujol products have been revised. Messrs. Fassett & Johnson are also now the sole distributors of Dabitoff in the United Kingdom.

Change of Design.—Ward Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1, announce that they are no longer supplying their vaginal applicators (disposable) at the basic Drug Tariff rate of one penny per applicator to retail chemists and hospitals. So soon as stocks are exhausted, orders will be executed with applicators of a different design, individually wrapped to comply with the Tariff specifications. The new type of applicator will also be used in the Penotranse applicator set. Penotranse tincture is being made available in a new 15-c.c. plastic tube.

"Free Holiday" Contest.—Johnson & Johnson (Gt. Britain), Ltd., Dept. C.D., 24 Princes Street, London, W.1, announce on another page a free holiday contest open to assistants selling Modess Masslenn sanitary towels. Six prizes, each consisting of fourteen days in Ostend, are offered for the six best entries completing the sentence: "I recommend Modess Masslenn to my customers because . . ." Fifty bands from packets of Modess Masslenn must accompany each entry. A separate free holiday is being given to the managers or owners of the shops from

which the winning entries come. Closing date for entries is April 30.

Adviser on Television Make-up.—Miss Thomas (principal, school of beauty culture, Innoxa (England), Ltd.,



1 Eden St., London, N.W.1), has been appointed make-up adviser to a commercial television production unit making films for use when commercial television commences in this country. Miss Thomas is shown putting the finishing touches to the make-up of an artiste.

In England Again.—An agency has been reopened in England for the optical equipment of Carl Zeiss, Germany. When the Soviet troops moved into Eastern Germany in 1945, the works of Carl Zeiss, Jena, came within Russian-occupied territory. In 1946 the Jena works were largely dismantled, and over 300 workmen and their families evacuated to Russia, but three days before the Russians took control, key personnel, including the directors and about eighty scientists and engineers, withdrew to Western Germany and established a new factory at Oberkochen in the American Zone. Today the company employs over 3,000 people in Oberkochen and another 17,000 in associated companies elsewhere, and is turning out optical products of the variety and quality that made the name Zeiss renowned throughout the world. The reopening of an agency in Britain is the latest step in the revival. The agency, with showrooms and offices at 32 Maddox Street, London, W.1, is in the hands of Degenhardt & Co., Ltd. The instruments and equipment include microscopes, binoculars, surveying instruments, ophthalmic and other medical diagnostic equipment, industrial optical instruments, modern spectacle frames and point-focus spectacle lenses.

Bonus Offers

BENGER'S.—Holmes Chapel, Ches, are offering, in return for a fourteen-day window display, the following bonuses on Benger's food: 5 per cent. (1 doz. small, $\frac{1}{2}$ doz. large);

7½ per cent. (2 doz. small, 1 doz. large); 10 per cent. (3 doz. small, 2 doz. large). The offer closes on February 28.

COOPER, McDougall & Robertson, Ltd., Berkhamsted, Herts, are making, on all orders for Cooper's household aerosol for delivery before April 30, bonus discounts of 5 per cent. on 4 doz. 4-oz. or equivalent weight in assorted sizes; or 2½ per cent. on 2 doz. 4-oz. or equivalent weight in assorted sizes. The offer also applies to Mothaire and Fresh-aire ordered with the household aerosol. A separate 5 per cent. bonus is being allowed on all orders value £5 or over for Cooper's household fly spray, sprayers, Cooper's moth powder, moth spray and household insecticide.

CROOKES LABORATORIES, Ltd., Park Royal, London, N.W.10, offer a bonus of one extra per doz. on parcels containing two doz. small and one doz. large cartons of halibut oil capsules.

DAE HEALTH LABORATORIES, Ltd., 17 Berners Street, London, W.1, are, until February 7, supplying the large tube of Valderma at fourteen to 1 doz. and the small tube at thirteen to 1 doz. Minimum order, three doz. small size.

SECTO, Ltd., Shaw Street, Blackburn, Lancs, are sending with all current qualifying orders a special bonus offer.

STEMCO, Ltd., 128 Albert Street, Camden Town, London, N.W.1, announce a 5 per cent. bonus on the following parcels of Flit aerosol insect spray: 4 doz. 4-oz., or 1 doz. 4-oz. and 2 doz. 6-oz., or 1 doz. 4-oz., 1 doz. 6-oz. and $\frac{1}{2}$ doz. 12-oz., or 1 doz. 4-oz. and 1 doz. 12-oz.; and a 2½ per cent. bonus on the following parcels: 2 doz. 4-oz. or 1 doz. 4-oz. and 1 doz. 6-oz., or 1 doz. 4-oz. and $\frac{1}{2}$ doz. 12-oz.

NEW PRODUCTS AND PACKS

New Lipstick.—Goya, Ltd., 161 New Bond Street, London, W.1, have introduced a new lipstick, Flamingo, in "Europe's most sophisticated black and gold case."

Toilet Soap in Large Size.—Roberts Windsor Soap Co., Ltd., The Acre, Windsor, have improved the quality and presentation of their Windsor toilet soap, which now is issued in a large-size tablet.

Creamy Cleanser.—Westbrook Lanolin Co., 109 Duckworth Lane, Bradford, are presenting, in a polythene bottle silk-screened in gold, a new cosmetic preparation, the "creamy cleanser." The new preparation is perfumed, has a milky consistency, and has a lanolin base in higher proportion than normally available.

Soothing Powders.—Sister Laura's Infant and Invalid Food Co., Ltd., Springfield Works, Bishopbriggs, Glasgow, are marketing a new product, Sister Laura's soothing powders for babies and children. Each powder contains aspirin, gr. 1½; magnesia, gr. 1, liquorice, gr. ¼; and calcium phosphate, gr. 1¼. The pack is a coloured envelope containing four powders.

FIGURES IN THE PHARMACEUTICAL WORLD

THOUGH nominally retired, Mr. H. B. Mackie continues to exercise a genial and positive influence on the profession of pharmacy, and especially on that part of it with which for thirty-five years he has been principally concerned. Geniality, warmth and humanity are characteristics at once obvious to everybody who meets him. His whole career suggests that he has been motivated as much by the heart as by the head, but what was once the clannishness of the Scot has broadened into a general kindness towards mankind, and particularly to that generation whose characters are still in process of being moulded. A genuine liking for young people is generally considered to be a necessary component in the make-up of a good teacher. Mr. Mackie has it in full measure. Students appreciate, too, his philosophical outlook, his breadth of interests and his aptness with illustrative quotation or literary allusion. "What was it Carlyle wrote on that subject?", he will say, answering his own question with an incident from *Sartor Resartus*, or "Didn't Kipling have that in mind when he said . . . ?" It is an essential part of any educational system he would approve that the trainee should be able to appreciate and in turn to put forward apposite illustrations from the common heritage of literature. More than that, he would have them grounded in the humanities, meaning, among other things, Latin and Greek. In his own early education, those disappearing studies played a decisive part, and there is no-one who more keenly deprecates the virtual abandonment of Latin as a pharmaceutical subject. Mr. Mackie's thoughts first turned to pharmacy as a career after an encounter with that eminent Scottish pharmacist, Dr. J. F. Tocher, and in Dr. Tocher's example character and intellect probably exercised an equal weight upon his choice. In consequence he embarked in 1906 upon a four-year apprenticeship in pharmacy, initially at Peterhead in the pharmacy of James Simpson, and later at Aberdeen in the internationally renowned pharmacy of W. F. Hay. At Peterhead he was made to realise the value of concentrating one's efforts to meet an exacting time schedule, for there was a routine of receiving at 10 a.m. a large batch of orders that had to be completed in time for the carrier's daily collection at noon. Under Mr. Hay he was subjected to an all-round discipline of rigorous professional standards which he did not at first appreciate as fully as he later came to do. Here there is neither the opportunity nor the need to expatiate upon the merits of a training under that mentor, the president of the Aberdeen Pharmaceutical Association in its centenary year. It is sufficient to say that the pupil absorbed and embraced the same high professional standards, and has by precept and example inculcated them in turn to hundreds of pharmaceutical students whose teacher he has been.



25. Mr. H. B. MACKIE

So far we have laid emphasis on emotional aspects, but it was intellectual capacity and merit that made Mackie a medallist at Robert Gordon's College, Aberdeen, took him easily through the Minor and Major examinations of the Pharmaceutical Society and at once gained for him a post as pharmacist in control of manufacturing and testing laboratories at St. Thomas's Hospital, London. There he seemed all set for a brilliant career. His work, especially in the direction of research, impressed the Hospital's governors and medical staffs and brought him in close contact and collaboration with Ehrlich when that pioneer German scientist visited the British capital. It is noteworthy that Mackie spoke with Ehrlich in German. He learned it in his spare time and on his own initiative, and not during his years at school.

But there came an interruption. In the 1914-18 war, the slaughter of Scottish comrades in one action stirred in the hospital pharmacist a fever to avenge their loss. He left and joined the Army only to be, within a

short time, brought back precipitately to a "key" civilian post he had too abruptly left. Work became thereafter a matter of duty rather than of enthusiasm, and when the end of the War came it came as an opportunity to him to look elsewhere.

At St. Thomas's he had, through teaching pharmacy to medical students, discovered in himself a gift for imparting knowledge to others—or rather, since it is with Mr. Mackie a prime tenet that "you can only teach a person what he knows"—of making students aware of what they knew. The end of the war was, too, bringing demands for more teachers for the men demobilised from the Army and anxious to qualify in pharmacy. Mackie applied for and was offered three teaching posts. It was little more than chance that took him to Brighton instead of to one of the other two. The task that faced him there was to create a school where none existed, where no-one seemed even to know what was wanted and apparatus and equipment was almost entirely lacking. In November, when he arrived,

the students had been for almost two months groping or idling for want of direction and guidance. His first step was to make a tour of the London wholesalers and buy up whatever apparatus could be pressed into service for purposes of teaching his students. His initiative was noted with outright approval in one quarter. A deputation of Brighton pharmacists (notable among them such local leaders as A. J. Plowright and T. Edgar Jones) called on him and pledged him the support and resources of the local Pharmaceutical Association. Since then the school's progress has been continuous and steady, and its happy relationship with local practising pharmacists has remained firm and strong. It is today, through Mr. Mackie's vision, aim and constructive effort, acknowledged one of the country's leading schools of pharmacy.

MR. MICHAEL COSTELLO (president, Pharmaceutical Society of Ireland) states that his sole business address is 25 Marino Mart, Fairview, Dublin. His private address is 49 Howth Road, Dublin.

MR. L. F. KITCH, M.P.S., who has been appointed manager of the home sales department of Glaxo Laboratories, Ltd., Greenford, Middlesex (see p. 32), was apprenticed to Mr. Walter Deacon, M.P.S., Bridgwater, Somerset, and qualified as a chemist and druggist in 1926. He spent some years in retail business at Croydon, Surrey, and Exeter, Devon. He joined the staff of Glaxo Laboratories, Ltd., in 1936.

MR. CLIFFORD PAIN, M.Sc., who has been appointed to the board of Imperial Chemical Industries, Ltd., as an executive director (see p. 32), has been chairman of the Dyestuffs Division since November 1952. A native of Yorkshire, he was educated at London University and joined the research department of Levistein, Ltd., in 1917. He specialised in the dyestuffs and intermediates fields, in which he made a number of inventions. He was appointed leader of the exploratory research section of the Dyestuffs Division in 1937 and became research manager of the division in 1943, and research director in 1946. Mr. Paine is chairman of the Wilmslow Guild, Cheshire. MR. W. D. SCOTT, B.Sc., who has also been appointed an executive director of the company (see p. 32), took his degree in chemistry at Oxford University and was elected the Henry P. Davidson scholar to Yale University. For some years he worked with the Hercules Powder Co., Ltd., in America and Holland. In July 1935, he joined I.C.I., Ltd., in the Explosives



Mr. Mackie, its principal from 1919-54, has been one of the examiners of the Pharmaceutical Society throughout that period (their chairman several times). He has been chairman of the Brighton Branch of the Pharmaceutical Society and president of the local Association. He remains a member of the pharmacy subcommittee of the British Pharmacopoeia Commission, and has been an extremely popular chairman of the British Pharmaceutical Conference. A few months ago he retired. But in his retirement Mr. Mackie has taken up again researches that his teaching duties left him little opportunity to pursue. In the counsels of the pharmaceutical educators his voice is raised on the side of liberalising and humanising the training of entrants. Though he brings an unrivalled experience to the discussions, his eye is always to the future. The

loyalty and love that once were for his countrymen in khaki are today all for pharmacy and its elevation to a place of honour among the professions. Hard thinking, he will tell you, is more than ever necessary in the craft. In an epoch of change, every member must see that pharmacy moves ahead. To cater for those already qualified the local authorities should be "badgered" into providing courses in pharmacology. For those still to qualify, the sooner a three-year course is instituted the better. Apprenticeships should be abandoned in favour of a "practice period," after graduation, with an examination in practical pharmacy at its end. And the Society should not concern itself with assistants. Let them be trained where they are employed. Not everyone may agree with Mr. Mackie. All will recognise the sincerity and authority of his opinions.

PERSONALITIES

Division sales department and in 1951 was transferred to the Dyestuffs Division as market development officer, later becoming home sales manager for the division. In 1951 he went to the Billingham Division, being appointed joint managing director (commercial) in the following year.

MR. W. J. V. WARD, who has been appointed chairman of the Billingham Division of Imperial Chemical Industries, Ltd. (see p. 32), joined that Division in 1926 and worked at first in the research department. By 1932 he had risen to be senior plant manager in the process department and later in that year took charge of the Drikold group. For four years he was chief technical assistant on the directorate staff, and in 1944 joined the Division's technical department as ammonia technical manager. He was later promoted to take charge of the technical department, relinquishing that position in 1949, on his appointment to the Division board as technical director.

MR. RICHARD C. FENTON, who has been elected vice-president in charge of the European operations of the Pfizer Corporation (foreign trade subsidiary of Charles Pfizer & Co., Inc., Brooklyn), first joined Messrs. Pfizer as British branch manager in September 1951 to help start operations in the United

Kingdom, and became regional director for Europe in 1952. He was previously assistant to the managing director of British Schering, Ltd. He is a linguist, having taken the degree of M.A. in modern languages at Cambridge. He was in the Department of Economic Warfare of the Foreign Office, 1941-46.

MR. ARTHUR C. WALMSLEY, M.P.S., who has retired from his



position as chief pharmacist at the Royal Sussex County Hospital, Brighton, was recently presented by his colleagues with a table lighter and a book containing their signatures. Mr. Walmsley, who was born in Lancashire, studied at the South of England College of Pharmacy, London, S.W.9, from which he qualified as a chemist and druggist in 1913. Shortly afterwards he became assistant pharmacist at the Royal Sussex County Hospital, and six months later its chief pharmacist.

NEW YEAR HONOURS

Mr. Scott Cairns knighted

MR. DAVID ARNOLD SCOTT CAIRNS, Q.C. (chairman, Statutory Committee of the Pharmaceutical Society, and chairman of the Monopolies and Restrictive Practices Committee), received a knighthood in the Queen's 1955 New Year Honours list published on January 1.

Other awards include.—*Knight*: Mr. Leybourn S. P. Davidson (president, Royal College of Physicians, Edinburgh); Mr. Arthur A. Gemmell (president of the Royal College of Obstetricians and Gynaecologists); Sir John Stopford (Vice-chancellor and professor of experimental neurology, University of Manchester); *C.B.*: Mr. G. R. D. Hogg (under-secretary, Department of Scientific and Industrial Research); *C.M.G.*: Mr. Raymond Lewthwaite (director of Colonial Medical Research); *C.B.E.*: Dr. M. W. Goldblatt (director of the industrial hygiene research laboratories, Imperial Chemical Industries, Ltd.); *O.B.E.*: Messrs. F. A. Gould (until recently senior principal scientific officer, National Physical Laboratory, Department of Scientific and Industrial Research); T. A. Morrison (chairman of the Brighton Executive Council), W. E. Shaw (deputy works manager, Charlton factory, United Glass Bottle Manufacturers, Ltd., London); *M.B.E.*: Mr. C. V. Fish (executive officer, Ministry of Health); Mr. H. S. St. E. Robbin-Coker (chief dispenser, Medical Department, Sierra Leone).

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

A New N.F.

THE compilers of the new edition (the third) of the National Formulary are to be congratulated, as our reviewer (p. 38) points out, on having made a genuine attempt to meet the needs of the practising pharmacist. Their endeavour has taken the form, not of major alterations (they were made in the previous edition), but of attention to a number of smaller but practical details. Every user will be grateful for the far greater ease of reference he experiences in using the new Formulary by comparison with its immediate predecessor.

The most sensible alteration has been in the arrangement of the groups of preparations in the formulary section according to Latin titles. The previous edition used English group headings, with the formulations arranged according to their Latin titles. That was well enough intentioned, the idea at the time being that eventually the formulations themselves would be arranged according to their English titles. In practice, the interim arrangement proved most confusing, and the Joint Formulary Committee, bowing to complaints, has beat a retreat to the line of giving consistent Latin titles throughout. Not only that, but the committee has looked at the facts, and has given the greater prominence to the title by which each preparation is known to doctors and pharmacists: the abbreviated Latin title. To encounter such a common-sense approach in an official book is refreshing. It will be an encouragement, too, to those day-to-day users of the book who have put forward suggestions for its improvement, since some of the changes have been discussed at gatherings of pharmacists. Nobody can say, on this occasion, that the man at the counter has been disregarded.

Other commendable improvements are the printing of the Infants' Section on blue-tinted paper, an arrangement that will not only expedite reference but will help to avoid error; and extension of the index so that, where the supply of alternative preparations is officially directed, the alternative preparation and its page reference are given in the index itself. Page references to preparations appearing in the formulary section have been added in the section devoted to the pharmacological classification.

The Committee is still considering the compilation of a companion volume in which formulas will be grouped according to their pharmacological classification and in which English will replace Latin throughout.

More Muddles over Purchase Tax

NEW purchase tax legislation was introduced on January 1 in an attempt to deal with some of the problems that have arisen in the calculation of "uplift," that feature of purchase tax whereby the tax on a product is calculated on the maximum price existing between wholesalers and retailers, irrespective of the price actually paid. The 1954 Budget included concessions in the interpretation of the definition "open market wholesale value" of chargeable goods (see *C. & D.*, April 24, 1954, p. 413), but its operation was delayed until now, so that details might be worked out. In future, when goods are taxed on purchase by a retail trader, whether from a manufacturer or wholesaler, the wholesale value will not exceed the purchase price (with certain adjustments), except where:—

1. The price is low because of the quantity of goods purchased, or
2. The retail trader performs wholesaling functions or has a special buying advantage, or
3. The seller mainly supplies large buyers.

The change appears likely to have only a very limited effect in the pharmaceutical industry. The Commissioners of Customs and Excise have indicated that, in determining the wholesale value, they will take account of the general pattern of distribution of comparable goods, and they have laid down that for many products, especially branded goods, the wholesaler's standard price before deductions of quantity discount will provide the tax value. That attitude, of course, avoids the possibility of different amounts of tax being applied for the same article.

The British tradition of "muddling through" is surely at its most evident in the Regulations relating to purchase tax. They bristle with anomalies—a state of affairs that is hardly surprising, bearing in mind that they were drawn up to meet conditions quite different from those that obtain today. All industry is hampered with the tax, but the pharmaceutical industry has its own special problems. One anomaly to which we would refer again was caused by the 1948 Order, in which the liability of a product to tax became dependent upon the presence or absence of a trade mark. Another Order was introduced during 1949 that gave rise to "dispensing" packs. The application of both of those Orders has been changed by succeeding issues of the British Pharmacopoeia, British Pharmaceutical Codex, and National Formulary. There is no doubt that manufacturers could effect economies in production were they not required to produce relatively small batches of products in packs specially designed to avoid the incidence of purchase tax.

ECHOES OF THE PAST INDIGENT PERSONS WITH RUPTURE

From *The London Chronicle*, April 14-17, 1759.

"ON Monday last was held a special committee of the subscribers to the hospital for the relief of indigent persons afflicted with ruptures, and under the care of Mr. Lee, of Arundel-Street, Surgeon, when it appear'd, that three-score poor men, women, and children, and above fifty soldiers, after having been deemed unfit for duty, had been perfectly cured, and returned to their respective regiments. As this is the only hospital of its kind in this or any other kingdom, so it is that alone to which so great a number of poor miserable objects afflicted with a disorder heretofore deemed incurable, have been admitted, and not one died since its first institution."

NATIONAL FORMULARY, 1955

BY J. W. HADGRAFT, F.P.S., A.R.I.C.

A NUMBER of innovations which the National Formulary, 1952, introduced aroused considerable discussion amongst both pharmacists and doctors. Perhaps the most controversial departure was the use of English in the main headings of the General Formulary section. Despite the fact that English titles are now used in both the British Pharmacopoeia and British Pharmaceutical Codex, the 1955 edition of the National Formulary has reverted to a consistent use of Latin, both in the individual titles of the preparations and in the main headings of the Formulary. Although that may make cross-reference from N.F. to B.P. or B.P.C. a little difficult, it should come as welcome news to the pharmacists and doctors who have found the English titles of the N.F. an encumbrance.

Official Titles Shortened

An attempt has also been made to shorten official titles, which are often cumbersome by comparison with the names of proprietary preparations. Abbreviated Latin is used for the main title of each preparation, and for some preparations the titles have been shortened by deleting unnecessary words. For example, "tabellae pethidini hydrochloridi" is named "tab. pethidin," since only the hydrochloride is used.

Altogether, sixty-two preparations have been deleted from the book, whilst only forty-five new preparations have been added. A further twenty-three preparations have been amended in composition.

A few familiar preparations are amongst the deletions. One of them is collutorium thymolis compositum. When that preparation is now prescribed, glycer. thymol. co. is to be dispensed. Included in the deletions also are elixir sennae and emulsio paraffini liquidi cum agar. The latter preparation has been omitted because the agar present is inadequate in amount to have any therapeutic effect and serves little purpose as an auxiliary emulsifying agent. When it is prescribed in future, liquid paraffin emulsion, B.P., is to be dispensed.

Six injections (amphetamine sulphate, menaphthone, oily procaine benzylpenicillin, weak procaine and adrenaline, strychnine hydrochloride, sulphadiazine sodium) have been deleted as being no longer in sufficient demand to warrant inclusion. The same reason is behind the deletion of eight tablets (acetarsol, aloin, compound pancreatin, pheniodol, stramonium, sulphacetamide, sulphamilamide, theobromine and sodium salicylate).

Only one pastille (pastill. menthol. et eucalyp.) remains. Two resorcinol pastes (compound resorcinol and weak compound resorcinol) have been omitted. Solution tablets of penicillin have been replaced by a preparation containing sodium citrate (solv. penicil. et sod. cit.). Yellow ointment of boric acid and phenol ointment have been deleted. The remaining deletions are unlikely to arouse comment.

Most of the amendments to composition have been foreshadowed by the B.P.C., 1954. Thus the National Formulary follows the B.P.C. in using solution of amaranth in preparations that formerly contained solution of azorubrum. Antazoline cream, which was formerly an N.F. preparation, is now included in the B.P.C. and contains non-ionic emulsifying wax in place of triethanolamine stearate. The product is a more stable preparation, which is no longer required to be "recently prepared." Zinc oxide and ichthammol cream has also been reformulated in accordance with the B.P.C., 1954.

The changes in the eye drops are all taken from the new B.P.C., and an important revision is the increase in concentration of homatropine hydrobromide to 2 per cent. in cocaine and homatropine eye drops. The concentration of sulphurated potash and zinc lotion has been doubled. The reduction (from 10 gr. to 7½ gr.) in the dose of sodium

bicarbonate in sodium salicylate mixture is worthy of comment. The formula yields a mixture with no insoluble deposit. Zinc oxide and camphor ointment now contains bis-muth carbonate in place of light kaolin.

The new preparations include eight mixtures, six capsules and eleven tablets. The increasing demand for antibiotic preparations is reflected in the inclusion of five new preparations of penicillin (aurist. penicil., narist. penicil., narist. penicil. et ephed., oculent. penicil. fort and tab. penicil.) and two preparations of chloramphenicol (caps. chloramphen. and aurist. chloramphen.).

A new antihistaminic (caps. diphenhydramin.) is added, and four additional barbiturate preparations (caps. pentobarbiton., caps. quinalbarbitone, tabs. amylobarbiton. and tabs. amylobarbiton. sod.) are included. Capsules of ergot have been included because tablets of that drug are stated to have been sometimes unsatisfactory.

Linct. methadon. is a new preparation containing gr. 1/32 of methadone hydrochloride in each 60 minims.

There are four new vitamin preparations. Caps. vitamin. A fort., containing 50,000 units of activity in each, have been especially included for the treatment of ichthyotic conditions of the skin. The remainder are preparations of the vitamin-B complex, and include tab. riboflav., tab. aneurin. co. (a combination of aneurine hydrochloride, riboflavin and nicotinamide) and tab. aneurin. co. fort. (containing pyridoxine in addition to higher doses of the other three constituents).

Ferrous gluconate tablets provide an alternative preparation for oral iron therapy. There is now also a ferrous sulphate mixture in the adult section of the Formulary. A new sulphonamide preparation is provided by tab. trisulphonamid., a combination of sulphadiazine, sulphathiazole and sulphamerazine.

The new mixtures include mist. chloral., which contains in ½ fl. oz. the same dose (gr. 20 chloral hydrate) as draught of chloral, B.P.C., contains in 1½ fl. oz. The directions for dilution on administration of the mixture are worthy of note. Two additional cough mixtures (mist. ammon. et seneg., and mist. ipecac. et codein.) have been added. Mist. strychn. et ferr. reappears in the Formulary after several years' absence. Mist. gent. alk. c. phenobarb., containing gr. ¼ of phenobarbitone sodium in ½ fl. oz., is a further addition. The mixture must be freshly prepared owing to the instability of phenobarbitone sodium in aqueous solution.

Additions have also been made to the footnotes directing the supply of alternative preparations when obsolete mixtures are prescribed. The notes should be a help to the busy pharmacist in cutting out reference to old editions of the N.F. or B.P.C.

Infants' Section

The Infants' Section is now printed on coloured pages to distinguish it from the rest of the book and facilitate easy reference. There have been few other changes. Linct. tolu co. pro inf., which was omitted from the 1952 edition, has been restored. There is an additional sulphonamide mixture (mist. trisulphonamid. pro inf.) which corresponds to the tablet for adults and is flavoured with syrup of orange.

Five infant preparations have been deleted. They are quassia enema, cascara and belladonna mixture, potassium bromide and belladonna mixture, stramonium and potassium iodide mixture, and rhubarb and sodium bicarbonate tablets.

The index has been further enlarged, and now occupies twenty-two pages, against fifteen in the old edition.

It may fairly be said that, in the preparation of this edition of the National Formulary, a genuine attempt has been made to meet the needs of the practising pharmacist.

SEQUESTERING AGENTS in pharmacy

By N. J. VAN ABBE, F.P.S.*

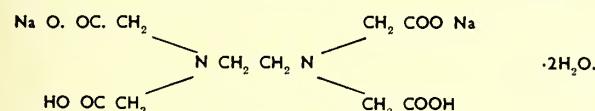
SEQUESTRATION is a term used to describe a type of chemical action that has only recently been shown to have wide possibilities of application in the textile, food processing, pharmaceutical and other industries. Originally, a sequestering agent was a substance that would combine with metallic ions to form soluble complexes, in the presence of chemical agents that would otherwise cause precipitation in aqueous solution; a typical example is the prevention, by means of certain sodium phosphates, of lime soap deposit when soap is used with hard water. Substances capable of bringing precipitates into solution, and of altering or masking certain forms of chemical or biological activity of metallic ions, are also now regarded as sequestering agents. An example of this kind of activity is the "binding" of traces of metals such as iron, which would otherwise catalyse the oxidation of important materials.

Types of Sequestering Agent

The more complex phosphates, in particular tetrasodium pyrophosphate, "glassy" sodium hexametaphosphate, and sodium tripolyphosphate, are commonly used as water-softeners. As foam-building additives they are used on a massive scale in synthetic household detergents. Those applications are limited mainly by the alkalinity of the phosphate sequestering agents (making them unsuitable where acidic conditions are required), by their ease of hydrolysis to orthophosphates, especially at high temperature, and by the fact that some metallic ions are not strongly sequestered by them.

Organic sequestering agents tend to be more expensive than the inorganic phosphates, but offer wider fields of application. Thus citric and saccharic acids are sufficiently oil-soluble to give a sequestering action in the oil-phase of emulsions, and can be used to sequester those metallic contaminants which catalyse the oxidation of fats (the action can be used to augment the antioxidant activity, for example of propyl gallate).

Perhaps the most promising sequestering agents now available, from the standpoint of the field of possible exploitation, are ethylenediamine tetra-acetic acid and its salts, such as disodium ethylenediamine tetra-acetate dihydrate.



Ethylenediamine Tetra-acetic Acid (EDTA)

EDTA is readily available in crude or pure forms as the free acid mono-, di-, tri- or tetra-sodium salts, and can also be obtained, for instance, as the calcium derivatives. In proportion to the extent to which the free acid is neutralised, so the water-solubility and *pH* increase; EDTA salts also have a limited degree of solubility in aqueous alcohol. The EDTA salts are obtainable as non-hygroscopic crystalline powders, odourless, tasteless and stable (except for the loss of water of crystallisation) up to 150° C. They are not liable to hydrolysis, and are stable over a wide *pH* range. There is a considerable volume of literature concerning the physiological effects of EDTA, by oral and parenteral administration and in topical use; broadly speaking, it may be said that EDTA may safely be incorporated in medicaments at the low levels needed for sequestering action, though high dosages would require a study of possible effects (for example, on the blood calcium level).

Pharmaceutical Applications of EDTA

EDTA sequesters metallic ions to the following extents:
 Alkali metals (sodium, potassium) only very weakly
 Alkaline earths (calcium, magnesium)...quite strongly bound
 Zinc, ferrous iron, cobalt strongly bound
 Ferric iron, lead, copper very firmly sequestered
 Practical use is made of those characteristics of EDTA, bearing in mind especially the amount of metallic ion likely to be encountered (which may be a contamination of a few parts per million only) and the nature of the bulk material to be treated. Fields already partially explored include:

1. WATER TREATMENT. By sequestration of calcium and magnesium ions present as hardness, EDTA can be used to prevent "scaling" of evaporators and in similar conditions where the temperatures would be high enough to destroy the phosphate water-softeners.

2. ANALYSIS. A large number of analytical procedures have been devised in which metal complex formation by EDTA is used to obtain a clear end-point or to facilitate various electrochemical and other techniques. The simplicity of procedures for the determination of calcium, magnesium, zinc and mercury is of special interest to the pharmaceutical chemist.

3. MEDICINE. The most promising application so far discovered is that EDTA can be used in the treatment of heavy metal poisoning, especially in lead poisoning. EDTA is an effective solvent for urinary calculi, though it is somewhat irritant to the urinary tract. Allied medical uses include the preservation of blood and the employment of EDTA in various biochemical estimations.

4. PHARMACEUTICS. Many incompatibilities, and many examples of poor stability of medicaments, involve either lack of solubility of a material in the presence of metallic ions, discolouration due to metallic contamination, or oxidation catalysed by trace metals. Thus EDTA may be employed as a highly effective stabiliser for injection of calcium gluconate. Calcium d-saccharate is an officially recognised sequestering agent to stabilise that preparation, and it seems probable that EDTA-calcium would also comply with the British Pharmacopoeia monograph.

EDTA is reported to prevent the discolouration and oxidation of adrenaline in solution, and to act as a stabiliser for ascorbic acid and for solutions of crystalline penicillin. It may also be useful in preventing the discolouration of salicylate preparations and of such substances as phenol, resorcin, tannic acid, procaine, apomorphine, and the soluble barbiturates.

A special application of EDTA is its apparent synergistic action with certain antiseptics, especially with the quaternary ammonium compounds.

5. COSMETICS AND TOILETRIES. EDTA is of great value in yielding improved foaming and detergent properties with many soaps and synthetic surface-active agents in soft and hard waters. In addition, it offers protection against discoloration due to trace-metal contamination and against the development of cloudiness in liquid shampoos. It is also used in hair rinses to counteract the "dulling" effect of lime-soap deposits. There are reports of the stabilisation of perfumes by EDTA, and of its use in protecting deodorant and other cosmetic creams.

Conclusion

Little has been said above in regard to the actual amounts of sequestering agents required in various applications, since

* Head of the Formulation Department, Genatosan, Ltd., Loughborough.

that would rather complicate such a review. However, it may be said of EDTA that the proportion required is approximately equal to the amount of metallic ion to be sequestered. As that is usually a matter of small traces only, it follows that most pharmaceutical uses require but fractions of 1 per cent. of EDTA for their stabilisation.

The pharmacist who is confronted with an awkward problem of incompatibility or of poor stability (involving such reactions as oxidation and double decomposition), may now profitably examine the possible employment of a sequestering agent to overcome the difficulty—just as he would use an antiseptic to preserve an injection solution or a cream.

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In this abbreviated list references 1-6 deal with pharmacological aspects; 7-8 with pharmaceutical analysis; 9-14 with pharmaceuticals; and 15-18 with toiletries and cosmetics.

Are British manufacturers of "ethical" proprietaries failing to reap the benefit of their "stupendous effort" in the export drive in the

MARKETS OF THE MIDDLE EAST? A call for more aggressive methods

BY R. O. M. EDENBOROUGH (now in the Middle East)

A RECENT tour embracing Egypt, Lebanon, Syria, Iran, Iraq and Pakistan makes it clear that, in spite of the stupendous effort put into the export drive by the British pharmaceutical industry since the 1939-45 war, the immediate post-war success is not being maintained. German, Swiss, Italian and French firms are most active in all markets. Their advertising policy is aggressive and sustained, and their prices are low—so low, in some cases, that one would believe that they were selling without profit.

Presentation and Finish

But, price apart, other factors are contributing to the success of Britain's foreign competitors. Generally speaking—and this applies especially to American, Swiss and German products—the presentation and finish of foreign preparations is superior to that of the British. The foreign product is often packed in a well-finished modern plastic container, neatly labelled in French (still the *lingua franca* of the educated classes in the Middle East), English and Arabic, with a trilingual packing leaflet, and enclosed in a plasticised cardboard carton, extremely well printed, and the whole wrapped in transparent cellulose tissue. By comparison, many British products look shoddy and clumsy—packed in a stock bottle, uncartoned and with the label and instructions for use given in the English language only. That criticism does not apply to all British manufacturers, several of whom recognise that the utility packs appropriate for the National Health Service are just not good enough for the export market.

Advertising directed to the doctor by the Continental and American firms is original in design, well printed on good-quality paper and board, and mailed fortnightly from the head office direct to the overseas doctor. The standard of literature, particularly that put out by the leading American firms, is superlatively good in quality, and profusely illustrated with natural coloured anatomical drawings and colour photographs, from which the Middle Eastern doctor learns much that he did not acquire at his University in Beirut or Cairo.

The German, Swiss, Italian and American firms are lavish in the distribution of samples to the doctor, either by direct mail from the country of origin or by local distribution by agents given large quantities of samples for

that purpose. When they introduce a new product, even after generous clinical samples have been tried out by leading specialists and the product already has some cachet, they often send with initial stock orders three or five times as many samples as the number of sales packs ordered. In the words of my Damascus agent, "The Germans have prostituted the market by the shoals of samples they make available." The result of that extravagant and unnecessary Continental sampling has caused the doctor in the Middle and Far East to expect lavish supplies of free samples from other firms. Many he uses, but the surplus is parcelled together at the end of the month and sold at cut prices in the bazaar. Pernicious though that grossly excessive sampling policy may be, the constant receipt of samples of a product does ultimately have the result of persuading the doctor to prescribe the preparation, and the donating firm benefits in the long run. If sales are to be maintained, even established, old products require to be sampled, if on a more modest scale. The custom is a form of *baksheesh* beloved by all classes in the East.

Advertising novelties, as calendars, diaries, thermometers, percussion hammers, penknives, scalpels, and even stethoscopes are freely distributed, particularly by the Germans. The complaint so often voiced here is "You British firms never give me a present. How do you expect me to prescribe your products?"

There is a heavy demand for antibiotics, and they, as much as any group of preparations, built the excellent reputation most of the leading American firms enjoy in the East. Preparations against dysentery, tuberculosis and bilharzia are purchased in large quantities by Government departments, but the demand for antimalarials is declining rapidly, thanks to effective spraying with DDT, organised with Point IV aid. The general practitioner prescribes, and the public buys, vast quantities of cough syrups, eye preparations, concentrated multi-vitamin tonics bolstered with iron and trace elements, preparations, based on choline, against liver disorders, and ampouled preparations. Injections are liked.

Unfortunately the prejudice of the British Ministry of Health, supported by the Cohen Committee, against "poly-pharmaceutical" formulations, and the emphasis in England upon single chemical compounds, hamper the British exporting firm. For unless the British manufacturing chem-

ist is prepared to market a special range of polypharmaceutical preparations for the export market—not an economical or efficient policy—he cannot sell abroad the more simple product he is compelled to sell on the British home market. Damage is also done to British export interests in a number of Mediterranean markets by a growing tendency on the part of the official health authorities there to admit only products from Britain which fall within the Cohen Committee's Category 1. American, German, and Swiss competing firms do not have their hands twisted behind their backs by *their* respective ministries of health!

We in Britain have the Gilbertian situation of a Board of Trade exhorting the British manufacturing chemist to export more and more at the highest possible prices, whilst the Ministry of Health, for domestic reasons, unwittingly hampers and hinders export by its narrow policy of approving only "essential" products, apparently not realising that without a healthy and ever-expanding export trade Britain cannot afford the luxury of an all-embracing Health Service! The welcome given to an Englishman everywhere in the Middle East is hearty and sincere. We are respected and they like our integrity in business, but they say we are allowing the foreigners, particularly the Germans, to steal the trade from us. There is a terrific potential here in the Middle East—oil and mineral exploitation is rapidly raising the standard of living, and the purchasing power of millions of people who, a few decades ago, were nomads—people who need medicine and are becoming health-conscious.

How can we as a nation get a larger share of that growing demand? First and foremost by adopting a much more liberal and aggressive advertising policy, with the

provision of adequate samples, original and well-thought-out, forceful mailings to the doctors, by advertising not only in the British medical journals (all of which are read by the better-informed doctor here), but also in the better local medical journals, and by the appointment of technically informed resident area managers, who would make liaison with, supervise, and assist their companies' local agency. Profits may initially be reduced, but on a long-term basis will be recouped tenfold.

Then, too, much greater attention has to be given to the design of packaging and the presentation of the product. English, French and Arabic are a *sine qua non* in the "directions for use," and English and French on the medical literature sent to the doctor. Mailings to the doctor must be frequent and of a high quality. More attention must be given to neatness whilst the product is being packed on the conveyor belt. Products must be what the market needs, and not what Whitehall thinks is good for the British people at home. Speedy delivery, with careful investigation of the most expeditious routes, is essential. Wrongly shipped goods can take up to five months to reach Teheran from London. Reasonable credit or even consignment stocks (as provided by the Germans in many cases) are desirable. Directors of British pharmaceutical companies should regularly visit those important export markets to make certain that their company is giving service and satisfaction, and also to ascertain that the agent is playing his part. Encouragement to nationals from the Middle East to take their medical degree in Great Britain instead of in Germany, France or the U.S.A. would greatly help to persuade doctors to "Buy British."

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

NO EXCUSE

SIR.—May I, through you, say thank you to the kind firms who sent me fourteen calendars this Christmas! I really shall know the date!

J. TINDALE

NON-SURGICAL TREATMENT OF CATARACT.

SIR.—A new approach to the problem of cataract is now being clinically investigated. After two months, an interim report states that, of twenty cases under treatment, no less than eighteen show improvement. The treatment consists in the instillation into the affected eye of a solution of 2-benzyl-4:5-dihydroglyoxaline hydrochloride and the oral administration of tablets. The solution is sympatholytic, adrenolytic, exerting a vasodilator effect chiefly on peripheral arteries and arterioles. Apart from its results in the treatment of such conditions as iritis, keratitis, and iridocyclitis, it seems to exert a retarding and even an absorptive effect on the development of lenticular opacities, particularly in the early stages. The tablets, essentially a combination of cyanocobalamin, riboflavin, and alpha-tocopherol acetate, produce a striking clinical response. The erythrocyte regeneration is more rapid, visual acuity is increased. The effect seems to be a slackening in the development of the lenticular opacities, and in some cases a diminution of the affected areas. The treatment is not fully established.

EDGWARE, MIDDLESEX

J. ROSS-MANSELL

VALE DRUGGIST.

SIR.—Having recovered from the excitement of being turned into Pharmaceutical Chemists, some of us, particularly the old stagers who qualified in the first decade of the century, and have welcomed THE CHEMIST AND DRUGGIST week by week for perhaps fifty years, are sorry that the title of our invaluable trade-journal must now acquire a somewhat antique savour. Though the etymology of the word "drug" may be dubious, it has a satisfying sound, a sort of finality; and a druggist, who had earned that title by long study and a searching test of competency, could hardly fail to be familiar with every simple medicinal sub-

stance, organic or inorganic. The druggist, too, is in the direct line of descent from the alchemist; he still spends much of his time pouring liquids from one vessel into another. From the business point of view we need have no regrets if "druggist" is allowed to fall into disuse, because the public look on the dealer in drugs no longer as a blameless, even a benevolent person, but as a shady character. I was reminded of that sinister connotation recently when a woman handed in a prescription with the remark "I hope there are no drugs in this medicine." I assured her that if by "drugs" she meant morphine, cocaine, heroin or hashish, there were none. I also seized the opportunity to explain that rhubarb, ginger, carbonate of magnesia and bicarbonate of soda (the script called for mist. rhei co.) are drugs, too; and that the chemist is trained to handle them all, poisonous and non-poisonous alike, and that after passing an examination he is registered as a fit and proper person to dispense them for the public. The notion that a drug is a dangerous or demoralising substance is widespread; the meaning of the word has been narrowed down in common parlance until it signifies almost nothing beyond the category of narcotics. Such phrases as "drug fiend," "drug addict" and "drug traffic," which appear so frequently in newspaper reports of unauthorised dealings in opium or Indian hemp, serve to strengthen the impression. It is perhaps too late now to deliver our ancient title from those sinister associations.

MARK DOWNIE

PAPAVER SOMNIFERUM

PAPAVER somniferum
*Bringer of sleep,
 Easer of pain,
 Giver of dreams,
 Of fantasies sublime,
 Haunt of the opium eater,
 The calm of surgery,
 Bringer of good or evil,
 Man shall decide.*

H. A. B.

ESSENTIALS OF TREATMENT

A C. & D. "post graduate" course for pharmacists

DEALING SPECIALLY WITH THE PHYSIOLOGICAL AND PHARMACOLOGICAL PRINCIPLES INVOLVED

BY A MEDICAL MAN

24. DISEASES OF THE SKIN

To conclude the series of Essentials of Treatment, a few of the many diseases that have skin trouble as their main manifestation, will be considered. Space does not permit discussion of all diseases of the skin so that this and subsequent articles will be confined to the more common conditions and also to broad principles in the treatment and aetiology.

Localised Infections

As in most infectious conditions, infections of the skin can be acute or chronic, but in the latter case there is usually some generalised condition, such as tuberculosis, and the treatment is based on that of the fundamental cause. Discussion here will be confined to the acute infections, which include infections of hair follicles leading to boils and carbuncles. The infection can spread via adjoining cells leading to cellulitis or it can travel along the lymph vessels causing lymphangitis. Both these conditions are serious and can endanger life, although chemotherapy and antibiotics have altered considerably the grave prognosis. It is wise, however, to recognise the possibility of grave consequences if treatment is ignored or ineffective.

The common condition known as a "boil" is really an infection of a hair follicle leading to abscess formation. Its pathology follows the normal procedure of any inflammatory process in that the body lays down fibrous tissue on all sites of the infection to prevent its spread and the local capillaries become dilated in order to carry to the area more blood, which also contains an increased number of white blood cells known as polymorphonuclear leucocytes. These cells attack the bacteria and absorb them. Many of the white cells die and the dead cells, together with the dead tissue cells mixed with bacteria and tissue fluids form pus. Ultimately the whole area is sealed off from the rest of the body. When this stage has been reached, one can feel the hard fibrous tissue surrounding a soft mass, which is said to fluctuate when palpated by an examining finger. If the process is allowed to proceed, the skin superficial to the soft area becomes necrotic and breaks down so that pus is discharged. The cavity of the boil contains much pus together with a hard piece of tissue, which is commonly known as the core and is really necrosing tissue.

Treatment of a boil is designed to supplement and hasten the natural processes. To squeeze a boil between fingers is dangerous and is a practice which should not be undertaken by anyone other than a doctor, who is able to judge the attendant risks from clinical examination of the patient and his knowledge of pathology. If the process of fibrosis is completed the risks are not so great, but if it is not, squeezing will push bacteria into surrounding cells and set up cellulitis and possibly lymphangitis. It has already been said that in the natural process of overcoming the infection, there is an increased flow of blood to the affected area. This flow can be helped by the application of heat in the form of a poultice or in some cases by means of infra-red rays. Heat causes a local dilatation of the capillaries with a consequent increase in the blood flow. Once the boil has reached the stage of fluctuation, surgical intervention is generally indicated and this merely consists

of an incision across the centre in order to allow the pus to drain. As with squeezing, the time and place to incise has to be carefully chosen, because an incision may cut across cell walls, and if it is done too early or the fibrous tissue is cut across, the way is open for a spread of infection. Once the incision has been made, poultices and heat should be discontinued because the increased blood flow is no longer of any importance. In fact heat can at this stage cause an infection of the surrounding skin by dilating the pores and easing the entrance of discharging pus from the boil. Treatment is now designed to keep the incision open and so allow for the free drainage of pus until all the pus and the core have been discharged. It is also designed to prevent pus entering the hair follicles of surrounding skin and thus causing the formation of another boil. The condition now calls for a dressing, which will increase the flow of pus and this can be accomplished by an old but very efficient remedy in the form of pasta mag. sulph. Since the efficacy of the magnesium sulphate dressing depends upon its hydrophilic properties, it cannot be too strongly emphasised that the pharmacist who prepares the paste freshly from glycerin and exsiccated magnesium sulphate which have recently been dehydrated can play an important part in improving treatment. The action of the paste can be helped in some cases by inserting a drainage tube in the wound, thus preventing the edges of the incision coming together and sealing off the opening.

As soon as all the pus has been evacuated the process of healing may be encouraged and magnesium sulphate dressings discontinued. Penicillin or some other antiseptic cream may then be applied to the surrounding skin and the wound. Here one can emphasise again the importance of pharmaceutical skill and stress the advances of oil-in-water creams, which do not hinder healing and granulation in the manner that greasy preparations having oily or paraffin bases do. While magnesium sulphate dressings are applied, the wound must be dressed at least once a day and the area cleaned with an antiseptic solution such as a 1 per cent. cetrimide solution. To do so not only ensures the presence of an efficient dressing, but washing with cetrimide cleans the surrounding hair follicles and removes any bacteria, which may have entered from the discharging pus. Once the discharge of pus has finished, healing is usually rapid and complete within a few days so that dry dressings are all that are required in the later stages.

Treatment of a boil has been described in some detail because, once it is fully understood, the basic principles of treating other localised infections is appreciated and it is not necessary for the pharmacist to know the various modifications in detail. The incision for carbuncles and septic fingers differs, but these differences are occasioned more by anatomical differences than changes in the mode of treatment. Owing to the attendant risk of cellulitis and lymphangitis, there is a strong argument for systemic chemotherapy or parenteral penicillin. In the early stages before the formation of the fibrous barrier, drugs administered systemically can reach the site of infection and frequently abort it, particularly if they are given early enough. Once free drainage of pus has been established, the indications for systemic therapy are less obvious. The

use of antiseptic creams has been advocated above and it is appropriate to say a few words on their composition. Penicillin preparations for external use are tending to fall into disfavour in the same way as the sulphonamide ones have. That is due to the sensitivity which they engender in many people; a sensitivity which is very often not apparent until a later date, when another condition demanding systemic therapy with the drug is indicated. It is logical and wise not to destroy one's weapons of defence unnecessarily and there is a very strong case for not using the preparations mentioned when suitable alternatives exist. It is wrong to condemn the preparations mentioned merely because they can set up a sensitivity and to extol the merits of other substances because their ability to cause sensitivity is less evident. One must remember that the antibiotics and sulphonamides are used both systemically and locally, and the chances of their sensitising properties becoming evident are therefore much greater than those which are used merely as local dressings. In selecting an alternative to penicillin, it is logical to use a substance which is not likely to be given systemically for some illness likely to occur in the future. Here one can consider the advantages of aminacrine, the propamidine derivatives and cetrimide.

J. F. A. GÖTTLING

NOT many pharmacists can claim to owe their start in life to a poet. When Johann Friedrich August Götting, who was born 200 years ago (on January 5, 1755) at Derenburg, nr. Halberstadt, Saxony, lost his father in early childhood, and the family fell on evil days, he was fortunate enough to attract the attention of the poet Johann Wilhelm Ludwig Gleim ("Father Gleim"). With Gleim's financial help he learned pharmacy at the principal establishment in Weimar. He then studied medicine at the famous university of Göttingen in Hanover, where he became a friend of George Christoph Lichtenberg, best known today for his researches in electricity ("Lichtenberg figures"), but in his day equally renowned as a satirist.

After travelling in England and Holland, Götting was appointed associate professor of chemistry, pharmacy, and technology at Jena in 1789 and full professor in 1792. In the same year he obtained the M.D. His most important work in practical chemistry was his isolation of acetic acid as a product of the destructive distillation of wood in 1779. One of the first chemists in Germany to repeat and confirm the investigations of the great Antoine Lavoisier, he helped to overthrow the phlogiston theory, which dominated the world of science at that time. According to that theory, elaborated by J. J. Becher and G. E. Stahl, all combustible bodies contained a "principle of combustion" (phlogiston), which they surrendered to the air and to other bodies when

burnt. Lavoisier and Götting showed that on combustion a burning body combined with atmospheric oxygen.

Götting's numerous writings include *Physisch-Chemische Encyclopaedie* (1805-7), *Vollständiges Chemisches Probier-Kabinett* 1790 (for chemists, analysts, doctors, mineralogists, metallurgists, manufacturers, and amateurs), and *Einleitung in die Pharmaceutische Chemie für Lernende* (1778)—one of the early German books for the instruction of pharmaceutical chemists. He also founded the first German periodical devoted primarily to pharmacy, *Almanach für Scheidekuensler und Apotheker* (1780-96).

Onward from Galen A CURRENT CAUSERIE

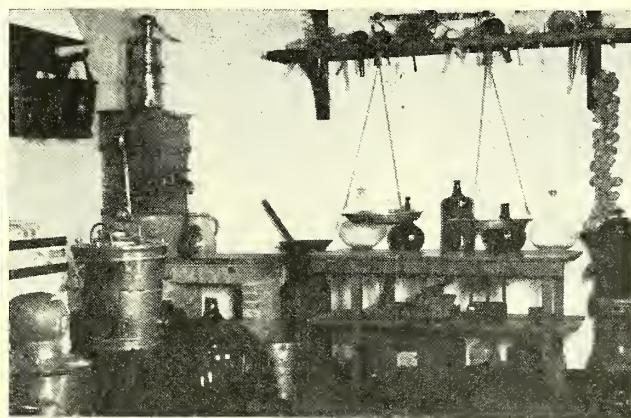
The British Medical Journal, in its first leading article on December 25, 1954, returned to the subject of abuse of barbiturates. Its view was that repeated warnings had had little effect on the way barbiturate drugs were prescribed. But is that view supported by evidence? As the leader-writer recalls, Dunlop and others found in 1951 that barbiturates accounted for 10 per cent. of 18,848 Scottish prescriptions examined. The chief pharmacist to the Ministry of Health in an address at Oxford in 1954 gave a figure of 6.3 per cent. for England and Wales in January 1953. Allowing for an epidemic, he suggested that 8 per cent. was a truer index. The problem is serious, but prescribers appear to have been influenced to some extent by the representations made in their own Press and elsewhere.



How costly the corrosion of plant may be to industry—and especially, no doubt, to the chemical industry, is being increasingly realised. As evidence, we may quote three factors of importance. One is that the mission sent to study how the problem is being tackled in the United States (*C. & D.*, September 18, 1954) needed 130 printed pages for its published report and estimated the annual cost of corrosion in that country at $5\frac{1}{2}$ to 6 thousand million dollars (say \$5,750,000,000) which is a figure with more noughts than most of us can really claim to understand. Secondly there are appearing on the market preparations of synthetic resins with so many protective applications that it is worth the manufacturers' while to stage expensive exhibitions to bring them to the notice of potential users. And thirdly there is a journal, *Corrosion Technology*, devoted exclusively to corrosion problems. That monthly paper is getting well on to the completion of its first year and its editorial and advertisement pages give every indication of a widening interest in the subject. What prompts us to mention the journal is that No. 9 (November 1954) contained an article on "Corrosion Problems in Hospital Practice," and it might surprise many that those problems are so intricate and require such a variety of precautionary steps to be taken.



AN EIGHTEENTH-CENTURY PHARMACY RECONSTRUCTED: In the building of the Vintners' Company, Kootstraat, Old Amsterdam, Holland, is a complete reconstruction of an eighteenth-century Dutch pharmacy, here illustrated. The reconstruction was arranged by Dr. Wittop Koenig, a well-known authority on the history of pharmacy in Europe.



AMERICAN APPROVED REMEDIES

Preparations accepted by the American Medical Association's Council on Pharmacy and Chemistry for inclusion in its list of "New and Non-official Remedies":—

SALUNDEK OINTMENT (new).—(Wallace & Tiernan, Inc., Belleville). Formula: 2 per cent. 5-chlorosalicylanilide, 1 per cent. 5,3'-dichlorosalicylanilide, 1 per cent. 5,4'-dichlorosalicylanilide; 3 per cent. salicylanilide; 2 per cent. undecylenic acid; 10 per cent. zinc undecylenate. Use: Topical treatment of *tinea capitis* caused by *Microsporon audouini*. Packs: Ointment, 28.3 gm. and 45.4 gm.

PROTOVERATRINES A and B.—(Vealba (Pitman-Moore Co., Inc., Indianapolis)). A mixture of two alkaloids isolated from *Veratrum album*. Indication: Symptomatic treatment of hypertension. Packs: Tablets of 0.2 and 0.5 mgm.; 10 c.c. vials of solution containing 0.2 mgm. of protoveratrine A and B in each c.c. Preserved with 0.2 per cent. *m*-cresol.

TETRACYCLINE.—Tetracyn (Chas. Pfizer, Inc., Brooklyn). Antibiotic presented as a flavoured powder which gives a suspension containing 25 mgm. tetracycline per c.c. on addition of water.

TETRACYCLINE HYDROCHLORIDE.—Achromycin hydrochloride (Lederle Laboratories, Ltd., Pearl River). Tetracycline hydrochloride Chas. Pfizer & Co., Inc., Brooklyn). Antibiotic. Packs: Tablets of 50, 100 and 250 mgm. (Lederle and Pfizer). Capsules of 50, 100, and 250 mgm.; vials of 0.1, 0.25, and 0.5 gm. powder for preparation of intravenous solution; Speroids (flavoured powder) in 36. and 75 gm. bottles; soluble tablets of 50 mgm. (Lederle).

TOLONIUM CHLORIDE.—Blutene chloride (Abbott Laboratories, Chicago). Known also as toluidine blue O. Antagonises effect of heparin on blood clotting time. Pack: Tablets of 0.1 gm.

NEW GERMAN PROPRIETARIES

Information from German pharmaceutical periodicals about recently introduced proprietaries:—

NEBOUETIN.—Ointment, powder, and solution containing neomycin 5 mgm.; bacitracin 250 units in each gm. Indications: Bronchitis, bronchitis, pyoderma, impetigo, furunculosis, and conjunctivitis, keratitis, etc. Byk-Gulden Lomberg Chemische Fabrik G.m.b.H., Konstanz (*Dtche. Apotheker Ztg.*, October 14, 1954).

BIFACTON.—Tablets containing Castle's intrinsic factor and vitamin B₁₂, 0.5 U.S.A. unit. Indications: Macrocytic anaemia and all cases in which vitamin B₁₂ is indicated. Orgapharm G.m.b.H., Munich (*Dtche. Apotheker Ztg.*, October 14, 1954).

ACETHROPAN.—Purified and standardised adrenocorticotrophic hormone of the pituitary anterior lobe. Farwerke Hoechst, A.G., Frankfurt (M)-Höchst (*Arzneimittel-Forschung*, November 1954).

BROMTHALEIN.—Solution of phenol-tetra-bromophthalein disodium sulphonate, 0.5 gm. in 10 c.c. Use: Liver function test. Packs: Three, ten and fifty ampoules of 10 c.c. Merck, Darmstadt (*Arzneimittel-Forschung*, November 1954).

COLIFER.—Living, freeze-dried *B. Coli*, 1 c.c. of the culture containing 500 to 1,000 million organisms. Indications: Chronic gastro-enteritis, colitis and constipation. Asta-Werke, A.G., Brackwede, Westphalia (*Arzneimittel-Forschung*, November 1954).

ROSIMON.—Phenetylaminocitrato-trimethylxanthin 0.09 gm., salicylamide-acetylphenetidin 0.45 gm., Ravizol (dimethylaminophenyl-dimethylpyrazolone and phenobarbitone in chemical combination) 0.09 gm. Use: Analgesic. Ravensberg, G.m.b.H., Konstanz am Bodensee (*Arzneimittel-Forschung*, November 1954).

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

CHLOROMYCETIN TOPICAL and CHLOROMYCETIN INTRAMUSCULAR INJECTION

MANUFACTURER: Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex.

FORMULA: *Topical*: 5 per cent. Chloromycetin in propylene glycol.

Intramuscular: Microcrystalline Chloromycetin, 2 gm.; sterile water, 4.6 c.c. to produce 5 c.c. of suspension.

INDICATIONS: *Topical*: Infected wounds, burns, abscess cavities and plastic surgery infections.

Intramuscular: For use where oral medication is impracticable.

USE: *Topical*: Infected area should be cleaned with saline solution and dried. Chloromycetin topical may then be applied on wicks or gauze packs, or used to irrigate the wound. Treatment should be carried out daily and continued for several days. If practicable, eradication of the infecting organism should be confirmed by bacteriological test.

DOSAGE: *Intramuscular*: Adults, 1 to 1.5 gm. Chloromycetin every twelve hours. Children, 100 mgm. per kilo bodyweight daily, increased to 150 mgm. per kilo if the response is not prompt. Those doses are given by deep intramuscular injection.

HOW SUPPLIED: *Topical*: In 15-c.c. vial with dropper. *Intramuscular*: In 2-gm. vial to make 5 c.c. of suspension.

FIRST ISSUED: Topical solution, September 1954; injection, July 1954.

REFERENCES: *Topical Use*: Flint and others, *Lancet*, 1952, **1**, 541. *Systemic Administration*: Schoenbach and others, *Amer. J. Med.*, 1952, **12**, 263. Ross and others, *New Engl. J. Med.*, 1952, **247**, 541. Harb and others, *J. vener. Dis. Inform.*, 1951, **32**, 177. Olansky and others, *Amer. J. Syph.*, 1953, **37**, 253. Robinson and Wells, *ibid.*, 1952, **36**, 264.

NUPASAL-213

MANUFACTURER: Smith & Nephew, Ltd., Bessemer Road, Welwyn Garden City, Herts.

FORMULA: *o*-hydroxybenzal isonicotinyl hydrazone.

INDICATIONS: Tuberculosis.

DOSAGE: 1 to 1.2 gm. daily.

HOW SUPPLIED: In containers of 100 and 500 100-mgm. or 250-mgm. tablets.

FIRST ISSUED: September 1954.

NOTES: Activity similar to isoniazid, but with much less toxicity.

REFERENCES: Bavin and others, *J. Pharm. Pharmacol.*, 1952, **4**, 844. Hagley, *Lancet*, 1954, **2**, 337. Bavin and others, *ibid.*, 1954, **2**, 337.

DILATAL: The formula given in the *C. & D.*, December 4, 1954, p. 580, should read: each 1-mil ampoule contains 5 mgm.

BECAPTA N*

MANUFACTURER: Pharmaceutical Division, Horlicks, Ltd., Slough, Bucks.

FORMULA: Each 2-mil ampoule contains 200 mgm. β -mercaptoethylamine (cysteamine).

INDICATIONS: Radiation sickness.

DOSAGE: *Prophylaxis*: 200 mgm. by slow intravenous injection between ten minutes and one hour after irradiation. *Treatment*: 200 mgm. intravenously once a day at any time except during the hour preceding irradiation. The doses should be repeated if necessary.

HOW SUPPLIED: In boxes of six and fifty 2-mil ampoules.

FIRST ISSUED: November 1954.

NOTES: No discomfort has been reported on intravenous injection provided two or three minutes are taken for the injection.

REFERENCES: Bacq, *Acta Radiol.*, 1954, **41**, 47. Lamerton and others, *Brit. J. Radiol.*, 1953, **26**, 510 and 568. Maisin and others, *Nature*, 1953, **171**, 971. Herve, *Rev. med. Liège*, 1952, **7**, 276. Bacq and others, *Science*, 1953, **117**, 633.

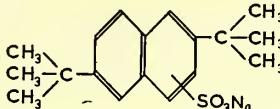
*Cross reference for card index.

CYSTEAMINE: See Bepacan.

BECANTYL

MANUFACTURER: Pharmaceutical Division, Horlicks, Ltd., Slough, Bucks.

DESCRIPTION: An anti-tussive syrup containing 0·4 per cent. w/v sodium-2:6-ditertiarybutylnaphthalene monosulphonate.



INDICATIONS: All types of cough.

DOSAGE: Adults: 2 teaspoonfuls three times a day or as prescribed; Children: 3-6 years, ½ teaspoonful; 7-15 years, ½ to 1 teaspoonful at above intervals.

HOW SUPPLIED: In bottles of 4, 40 and 80 fl. oz.

FIRST ISSUED: November 1954.

NOTES: It is claimed that Becantyl is specific in suppressing cough but does not suppress expectoration. It is unrelated to morphine or guaiacol. There is a wide margin of safety, and it may be given to infants and the elderly.

REFERENCES: De Vleeschhouwer, *Arch. int. Pharmacodyn.* 1954, 97, 34. Grignon and Aubertin, *Sem. Hôp. Paris*, 1953, 60, 2999. Winter and Flataker, *Proc. Soc. exp. Biol.*, 1952, 81, 463.**PENOFLEX**

MANUFACTURER: Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1.

DESCRIPTION: A bactericidal and fungicidal plastic dressing which is non-inflammable, and dries at a moderate rate on the skin to form an almost transparent film that allows normal evaporation from the skin.

FORMULA: A plastic emulsion containing 0·1 per cent. phenylmercuric dianaphthylmethane disulphonate.

INDICATIONS: As an alternative to ordinary surgical dressings, particularly for operation sites, minor burns and wounds, cervical erosion, and mycotic dermatoses.

USE: Applied with spray or brush. When the surface has become tacky, further applications can be made until a film of the desired thickness and durability is formed.

HOW SUPPLIED: In 15-c.c. tube and 100-c.c. bottle.

FIRST ISSUED: November 1954.

COLCEMID

MANUFACTURER: Ciba Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: Antimitotic alkaloid isolated from *Colchicum autumnale*.

FORMULA: 1 mgm. of demecolcine (desacetyl methylcolchicine) is contained in each tablet, and in each 1-c.c. ampoule.

INDICATION: Chronic myeloid leukaemia. May also be of use in acute myeloid leukaemia, and in carcinoma, sarcoma and lymphogranulomatosis.

DOSAGE: Chronic myeloid leukaemia: Initially, 1 mgm. by mouth twice daily, increasing to 7 or 8 mgm. daily after three days; maintenance, 1 to 5 mgm. daily depending on the leucocyte count. In severe cases initial treatment with the intramuscular administration of 5 mgm. daily may be undertaken.

HOW SUPPLIED: In containers of 100 and 500 tablets, and box of six ampoules.

FIRST ISSUED: December 1954.

NOTE: P.1 S.I. poison.

REFERENCES: Moeschlin and others, *Schweiz. med. Wscher.*, 1953, 83, 990. Schär and others, *Klin. Wschr.*, 1954, 32, 49. Storti and Gallinelli, *Schweiz. med. Wschr.*, 1954, 84, 612. Santany and Reichstein, *Helv. chim. Acta*, 1950, 33, 1660. Bock and Gross, *Klin. Wschr.*, 1953, 31, 816.**KOLANTYL**

DISTRIBUTOR: Riker Laboratories, Ltd., Loughborough, Leics.

FORMULA: Each tablet contains Merbentyl (dicyclomine hydrochloride), 5 mgm.; dried aluminium hydroxide gel, 400 mgm.; heavy magnesium oxide, 200 mgm.; sodium lauryl sulphate, 25 mgm.; methylcellulose, 100 mgm.

INDICATIONS: Peptic ulcer and hyperacidity.

DOSAGE: 2 tablets every three hours, or as required. May be chewed or swallowed.

HOW SUPPLIED: In bottles of fifty and 250 tablets.

FIRST ISSUED: November 1954.

NOTES: Dicyclomine hydrochloride is an anticholinergic drug and sodium lauryl sulphate inhibits lysozyme, which is capable of eroding mucosa.

REFERENCE: Miller, *J. S. C. med. Ass.*, 1952, 48, 1.**MISCELLANEOUS INQUIRIES****Sweetened Lemonade Powder***What are the ingredients of sweetened lemonade powder?*

THE following is a formula for making a sweetened lemonade powder suitable for packing:—

Tartaric acid	...	...	1 oz.
Oil of lemon	...	...	min. 20
Sugar	...	...	1 lb.
Lemon yellow colour	...	...	gr. 2

Put up in 1-oz. packets, the directions being: Empty the contents of the packet into a pint of cold water and stir, when a pint of delicious lemonade will be produced.

Teething-powders*Have you any formulas for children's teething-powders not containing mercury?*

THE following formulas do not contain mercury:—

Potassii chloratis	...	...	gr. 960
Pulv. scammonii co.	...	...	gr. 480
Pulv. glycyrrhizae	...	...	gr. 480
Pulv. sacch. lactat.	...	...	gr. 960
Ol. anisi	...	...	min. 12 gr.

Dose: gr. 3 or 6.

The following is an alternative formula:—

Light magnesium carbonate	...	...	gr. 240
Milk sugar	...	...	gr. 40
Potassium bromide	...	...	gr. 60
Potassium nitrate	...	...	gr. 20
Oil of dill.	...	...	min. 20

Dose: gr. 1 to 2.

WORLD TRADE**Spanish Chemical Imports.**—Spain proposes to import aniline dyes and intermediates to the value of £100,000 from Great Britain under its next import programme.**Indian Import Policy.**—Further liberalisation of imports in respect of a number of items, especially industrial raw materials, and a reduction of import quotas for items in respect of which the indigenous industry has already developed or is developing are the main features of the Government of India's review of import policy for the first half of the year 1955. A Press note issued by the Ministry of Commerce and Industry states that the review has resulted in a few changes in the open general licences. It has been found necessary to exclude ammonium chloride, barium carbonate and polystyrene from their purview. On the other hand, rock phosphate has been transferred from quota licensing to the o.g.l. The import quotas have been reduced for some twenty-three items. These include feeding bottles, penicillin, streptomycin and certain chemicals. *Ad hoc* licences will be granted for "new" antibiotics, and limited dollar imports of camphor and saccharin will also be allowed. Imports of one million more razor blades will be allowed in the next half-year through small value licences. The free licensing of creosote oil (light) to all permissible destinations other than Portuguese possessions in India is being continued up to the end of the present year.

BRANCH AND ASSOCIATION MEETINGS

MANCHESTER

Capsules to Replace Tablets?

THE possibility that powder-filled capsules might eventually replace compressed tablets for the administration of medicaments in powder form was discussed at a recent meeting of the Manchester Branch of the Guild of Public Pharmacists. The discussion followed an address by Mr. H. Burlinson (Thomas Kerfoot & Co., Ltd.) on some aspects of tablet manufacture and their analytical control. It was stated during the discussion that capsules could be made without granulation and thus much less skill. In addition the problems associated with thermo-labile substances and the administration in one product of chemically incompatible substances were easily overcome, and also substances to aid disintegration were not required.

NORTH LONDON

The Society's Museum

GIVING an illustrated talk on "Some Recent Researches of the [Pharmaceutical Society's] Museum" to members of the North Metropolitan Branch of the Society at a recent meeting, Dr. J. M. Rowson (curator of the Museum) said that the museum was one of the first projects of the Society. The laboratories were divided into those containing specimens and those for research. In 1952 a new laboratory had been obtained in Galen Place, London, W.C.1, and some 2,000 sq. yds. were in cultivation at Birdsgrove House. Microscopy investigations on new drugs, e.g., rauwolfia provided the only method of distinguishing varieties. Work was also in progress on improved methods of breeding by horticultural and physiological means. The formation of glycosides in digitalis had in the past been investigated by biological assay which was a prolonged and expensive method. He had now been able to apply a colorimetric method using dinitrobenzoic acid which showed a good comparison.

WEST LONDON

Cost of New Antibiotics

THE release of Terramycin and aureomycin, which had recently been made available on prescription, might make a significant increase in the average cost per prescription, said DR. H. DAVIS (chief pharmacist, Ministry of Health) addressing a meeting of the Western Pharmacists' Association recently. Since 1948, he said, the average had increased from 36d. to 48d. and a rough check on the November prescriptions gave an average of about 51d. Dr. Davis would be interested to hear from members of their experiences regarding the prescribing of aureomycin and Terramycin. The November issue of *Prescribers' Notes* was devoted to those two antibiotics. Dr. Davis said that in the new B.P.C. there were standards of assay in most of the mixtures, with tolerances of about \pm 5 per cent. Previously there were no limits or tolerances. Methods

of assay were now official, thus eliminating the differences of opinion due to alternative methods of analysis. Answering a question from MR. F. WILKINSON, DR. DAVIS said the National Health Service could not subsidise the export market by allowing high prices for new proprietaries. It was unfortunate that several manufacturers of exportable products were not themselves responsible for research. MR. CLIFFORD EVANS proposed a vote of thanks.

HARROW

Radioactive Chemicals in Medicine

RADIOACTIVE chemicals used in medicine were the subject of a talk given by MR. L. G. MYERSCOUGH (a member of the staff of the radiochemical centre, Amersham (Bucks), at a meeting of the Harrow Branch of the Pharmaceutical Society recently. MR. MYERSCOUGH said that β and α radiations were the most useful because of their penetrating power. With the help of lantern slides he described the preparation of radium needles and radon seeds showing the specialised apparatus and techniques used for handling radioactive materials. Plaques of artificially produced cobalt 60 and strontium 90 were now used instead of naturally occurring radioactive elements because they were much cheaper. The greatest problem associated with the increasing use of atomic power was the safe disposal of radioactive waste.

At the October meeting of the Branch, MR. H. TREVES-BROWN (treasurer of the British Pharmaceutical Conference) gave a résumé of some papers read at the Oxford meeting of the Conference, showing how the subject matter of the papers was concerned with materials used every day in the dispensary. MR. R. GOODE (chairman of the Branch), thanking Mr. Treves-Brown, said that the talk showed that the Conference could and should be of interest to pharmacists.

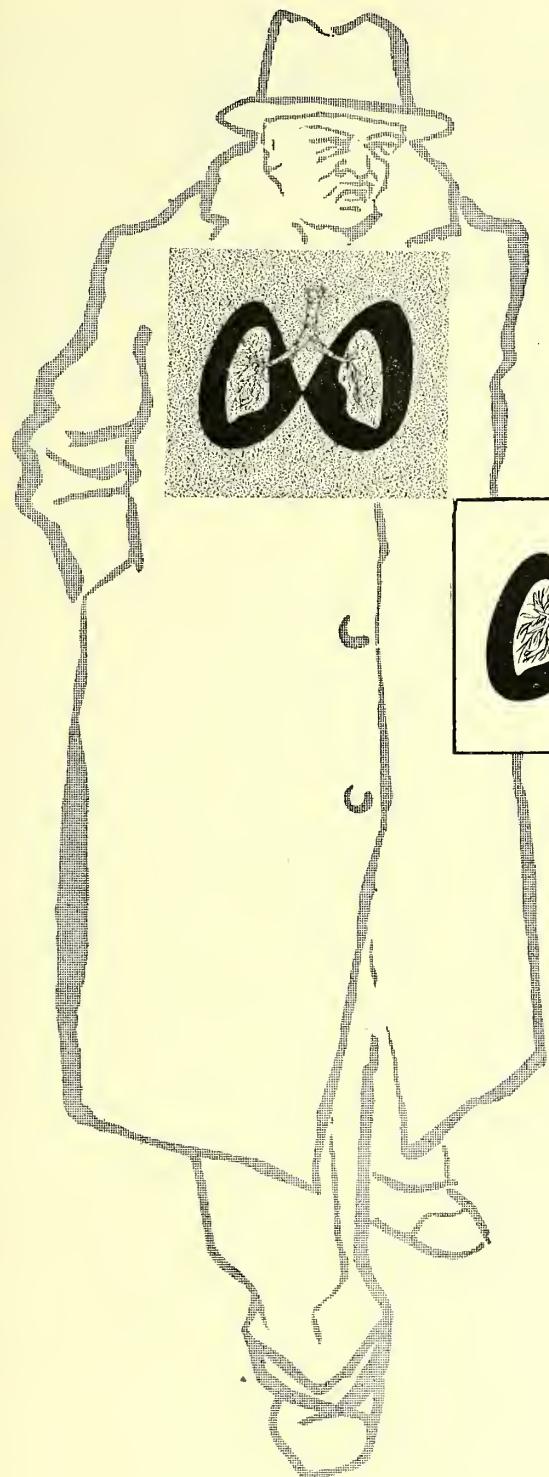
At the opening meeting of the session held in Amersham in September a talk on recently introduced drugs was given by MR. T. D. WHITTET (chief pharmacist, University College Hospital, London) who said that the newer penicillin derivatives were attractive because they gave prolonged blood levels and, as the so-called broad-spectrum antibiotics were not without drawbacks, penicillin was still widely used. Tetracycline caused fewer side-effects than chlortetracycline and oxytetracycline and was equally effective against the same organisms. Hodgkin's disease and polycythaemia responded to mustine hydrochloride but dosage was difficult to adjust. 1:4 dimethyl sulphenyl oxybutene was similar in effect to the nitrogen mustards, but unlike them it had more effect in myeloid leukaemia than lymphoid leukaemia. A new approach to thyrotoxicosis was being made with potassium perchlorate. That drug was effective in preventing accumulation of inorganic iodine in the thyroid gland and

appeared to be non-toxic in therapeutic doses. Twenty-two cases of barbiturate poisoning had been successfully treated with β -methyl-ethyl glutarimide, an antidote recently discovered in Australia. Kiton green was a common dye which, on injection, coloured the whole of the body green except brain tissue. That property was useful for diagnosing meningioma and angioma because the intracranial tumour could be readily distinguished by its deep staining. Psychiatry had found yet another powerful aid in the compound d-lysergic acid diethylamide. It caused euphoria and vivid visual hallucination during which a psychotic state might be revealed.

MANCHESTER

Fruit Products

ANIMAL experiments carried out in London had shown that there was a marked difference in the consistency of the clot in the stomach when milk was taken in association with a fruit-syrup and the loose texture of the clot would permit easier penetration by digestive juices, said MR. VERNON L. S. CHARLEY (technical director and chief chemist, H. W. Carter & Co., Ltd.), at a meeting of the Manchester and Salford Branch of the Pharmaceutical Society recently. Mr. Charley was giving an illustrated lecture on some fruit products of pharmaceutical interest. His lecture commenced with slides illustrating the latest features of the processing of fruit juices for conversion into high potency vitamin C syrups. Optimum conditions for enzyme action in fruits and juices were outlined, and processes of de-aeration, pasteurisation, carbon dioxide impregnation, and storage were illustrated and discussed. Dr. Charley referred in detail to the cold process of bottling fruit syrups, illustrating the various points by reference to his experiences in Germany, where, to attain first-hand information on the details of the process, he had worked as a factory hand in a large apple-juice bottling concern. The lecturer referred to his own experience in the manufacture of raspberry and blackcurrant syrups, B.P.C., and said that sulphur dioxide was a better all-round preservative with those products than sodium benzoate, and that no trouble should be expected from fermentation provided adequately sterile methods were enforced for the transference of syrups into smaller containers. The second half of the lecture was devoted to analytical and other data concerning the nutritive and therapeutic value of fruit juices and a description was given of the latest German work on the use of juices for reducing blood pressure and the treatment of a variety of heart and kidney disorders. Dr. Charley said that experiments had shown that one particular fraction of colouring material from the blackcurrant was responsible for the stability of ascorbic acid in that juice. Experiments were being undertaken to determine whether other factors with therapeutic activity could be found in fruit juices.



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**A new preparation
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Active Constituents: Theophylline 2 gr. (120 mg.)
Ephedrine Hydrochloride $\frac{1}{2}$ gr. (25 mg.)
Phenobarbitone $\frac{1}{2}$ gr. (8 mg.)

Dosage: *For daytime relief*
One or two tablets every four hours,
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One Tedral (plain) plus one Tedral
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Tedral is a Schedule IV preparation.

Price: Plain 50's List Price 42/- per dozen
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*We advise you to stock at once with Tedral
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No Warner preparation has ever been advertised to the public

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PRICE REDUCTION

As from Monday January 10th, prices of the following penicillin preparations will be reduced :

	TRADE PRICE	
	From	To
Permapen Plus	2/4	2/2
Permapen Oral Suspension	12/-	10/-

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 5: The markets remained inactive during the week following the holidays, with many houses anxious to take stock before making further purchases. Stocktaking was, in fact, deemed of greater importance than the buying of extra stocks against shortages that would accrue if the threatened railway strike were to take place. Perhaps the attitude was due to the optimistic view most people were taking that the dispute would be settled without the necessity of another unfortunate stoppage.

Few changes occurred in CRUDE DRUGS, but MENTHOL at 56s. per lb., duty paid, rose by 5s. with China asking more than 2s. above spot quotations. QUASSIA for shipment was unchanged in price, but delivery dates were extended. SPICES were generally unchanged, but some of the PEPPERS were dearer. When the Suez Canal became closed to shipping there was a run on white Sarawak pepper and prices advanced twopence per lb. Chinese RHUBARB remained scarce on the spot with no shipment offers. SENEGA was firm at origin, the price asked being 24s. per lb., c.i.f., against the unchanged spot price of 23s. 6d. New-crop GUM ACACIA eased substantially for shipment.

The main recommendation in a report by a subcommittee of the Food Standards Committee (see p. 31) is that present Regulations should be amended so as to permit the use in foods of specified colours only. Thirteen colours of natural origin for which approval is recommended include: ALKANNET, ANNATTO, CARAMEL, CAROTENE, CHLOROPHYLL, COCHINEAL, SAFFRON and TURMERIC.

In PHARMACEUTICAL CHEMICALS schedules of several commodities have been adjusted upwards for the smaller packages. ETHER is twopence per lb. dearer when supplied in glass containers, but supplies in drums are unchanged. MAGNESIUM CARBONATE (heavy) and MAGNESIUM TRISILICATE are also slightly dearer in the small packs with bulk supply rates unchanged. MINOR IODIDES have been adjusted to bring them in line with the current rate for CRUDE IODINE. It is thought in some quarters that the price of iodine may soon rise again. BARIUM SULPHATE for x-ray purposes is one-penny per lb. dearer—the first change that has taken place for a number of years. Supplies of STRYCHNINE ALKALOID and its salts are plentiful and manufacturers have recently been quoting below their list prices. STEARATES are expected to rise within the next few days following an increase of 5s. per ton in STEARINE on January 3.

Ceylon CITRONELLA OIL was quoted sixpence per lb. lower on the spot in an otherwise firm market. The Chinese oils advanced again with PEPPERMINT (*Arvensis*) rising to 46s. per lb. for all positions (a gain of 2s.). ANISE was threepence per lb. up and CASSIA, 2s. 6d. dearer for spot supplies. The forward quotations for the latter oil were considerably higher than the spot value. Also dearer on the spot were

imported CARAWAY (by one shilling); LEMONGRASS (sixpence) and PENNYROYAL (one shilling). Supplies of SANDALWOOD are becoming scarce.

Pharmaceutical Chemicals

ACETIC ANHYDRIDE.—Current rates (per ton) include the following: 1-ton (spot or contract over a calendar year) in 90-gall. drums, £130; single carboy, £162; single demijohn, £166.

AMMONIUM CHLORIDE, B.P. — Makers quote 1-cwt. lots at 68s.

ANEURINE HYDROCHLORIDE. — Price per kilo is £40.

BARIUM SULPHATE.—Dearer. 1-cwt. lots of B.P. (x-ray) are now 1s. 6d. per lb. and 5-cwt., 1s. 5d. per lb.

CALCIUM CHLORIDE. — B.P. crystals are 87s. per cwt. in 1-cwt. lots.

ETHER.—Prices (per lb.) in winchesters are higher from January 3 as follows:—TECHNICAL, B.S.S., and SOLVENT, 5-cwt., 2s. 5d.; 10-cwt., 2s. 4d. ANAESTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt., 3s. 9d. In drums prices are 4d. per lb. less than above.

GALLIC ACID.—B.P.C. is 8s. 7d. per lb. for 1-cwt. lots.

HYDROCYANIC ACID. — Dilute B.P.C. is from 1s. 4d. to 1s. 11d. per lb., as to quantity; Scheele's is from 1s. 8d. to 2s. 3d.

IODIDES.—The current quotations which include higher prices for the minor iodides are given below:

IODIDE	per lb.	Quantity
		s. d.
AMMONIUM ...	22 0	28 lb.
ARSENIC TRI- ...	47 6	28 lb.
CADMIUM ...	22 6	28 lb.
CALCIUM (PLATES) ...	22 3	28 lb.
ETHYL ...	27 6	28 lb.
LITHIUM ...	29 0	28 lb.
POTASSIUM ...	13 7	1 cwt.
SODIUM ...	16 7	1 cwt.
STRONTIUM ...	23 0	28 lb.
ZINC ...	27 9	7 lb.

IODINE.—Resublimed is 17s. 1d. per lb. in 1-cwt. lots. Minimum delivered rate for CRUDE is 22s. 10d. per kilo.

ODOFORM.—Powder is 26s. 1d. per lb. in 1-cwt. lots and crystals, 28s. 9d.

OXALIC ACID.—Manufacturer's rates for 1-ton lots are from £131 10s. to £135 10s. per ton as to packing, delivered.

PARALDEHYDE.—In 40 gall. drum lots the stabilised is 153s. per cwt. and the technical, 126s.

PAS.—The sodium salt is offered at about 22s. 6d. per kilo, duty paid.

PHOSPHORIC ACID.—B.P. is 1s. 5½d. per lb. in 1-2 carboy lots. HYPOPHOSPHOROUS, B.P.C., in winchesters, is from 5s. 9d. to 6s. 10½d. per lb. as to quantity.

PIPERAZINE.—Quotations for HYDRATE are from 37s. 6d. per lb.

POTASSIUM PERMANGANATE.—Rates for B.P. material for 1-cwt. lots is 1s. 8½d. per lb., and for technical, 181s. 6d. per cwt.

ROCHELLE SALT.—Rates (per cwt.) for powder or granulated material are as follows: In 5-cwt. lots or over, 180s. per cwt.; 1-cwt., 182s. 6d. SEIDLITZ POWDER ordinary strength is 144s. per cwt. in 1-cwt. lots; smalls, from 1s. 9½d. to 2s. 0½d. per lb. Extra-strong is 155s. per cwt., and from 1s. 10½d. to 2s. 1½d. per lb. for small quantities. Double-strength is 161s. per cwt.; smalls, 1s. 11½d. to 2s. 2½d. per lb.

SODIUM ACETATE.—B.P.C. powder in 1-cwt. lots is 1s. 10d. per lb.

SODIUM BROMATE.—1-cwt. lots are quoted at 10s. 9d. per lb.

SODIUM CHLORIDE.—Re-crystallised is 30s. per cwt.

SODIUM PERBORATE.—Prices (per cwt.) are 142s. 9d. in 1-cwt. kegs; 135s. 3d. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). Other strengths pro rata. The PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is 305s. 3d. per cwt.

SODIUM PERCARBONATE.—1-cwt. kegs are about 163s. (bags 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

SODIUM PHOSPHATE.—B.P. powder is 125s. per cwt.

STILBOESTROL.—Quotations are from 1s. 2d. to 1s. 7d. per gm. as to quantity. 1-kilo lots of B.P. are quoted at 10½d. per gm. The DIPROPIONATE is about 1s.

STRYCHNINE.—Minimum rates per oz. (1,000 oz. lots) include:—ALKALOID, 5s. 6d.; HYDROCHLORIDE, 4s. 5d.; SULPHATE, 4s. 9d.

SULPHACETAMIDE.—Quotations (per lb.) for 1-cwt. lots are 24s. 6d. The SODIUM DERIVATIVE is 30s.

SULPHAGUANADINE.—Manufacturers' rates for 1-cwt. lots are about 15s. 6d. per lb.

SULPHANILAMIDE.—Manufacturers' rates are from 6s. 3d. per lb.

Crude Drugs

ACONITE.—Spot supplies of Spanish *napellus* have been cleared. Nominal value 3s. 9d. per lb., duty paid.

AGAR.—*Kobé* No. 1 on the spot is from 16s. 9d. per lb., duty paid. Shipment, 14s. 4½d., c.i.f.

ALOES.—Prime Cape spot value is 275s. per cwt., no offers for shipment; Curaçao is cleared on the spot, afloat is 315s. c.i.f.; no shipment offers.

ANTIMONY.—English 99.6 per cent., £222 10s.; 99 per cent., £210 per ton.

BALSAMS.—Quotations (per lb.) are:—Canada: 20s. spot, *Copaiba*, B.P., 11s. 6d. Peru is 12s. 6d., duty paid, nominal; forward delivery, 10s. 9d., c.i.f. *Tolu* (genuine as imported), 26s. 6d. spot, and 26s. c.i.f.

BELLADONNA.—Root testing 0.42 per cent. is offered at 2s. per lb. and LEAVES testing 0.514 per cent., at 3s. 6d.

BENZOIN.—Sumatra block on the spot is firm at from £27 10s. to £32 per cwt.

BUCHU.—Scarce on the spot at 7s. per lb. nominal. New-crop indications are 5s., c.i.f.

CARDAMOMS.—Aleppy greens are firm. Spot, 14s. 6d. per lb.; January shipment, 11s. 9d., c.i.f.

CASCARA SAGRADA.—Unchanged. American 1954 peel for shipment is 220s. per cwt., c.i.f., London; spot, 265s., duty paid.

CASSIA BARK.—Whole on the spot is about 90s. per cwt., in bond, and for forward delivery, 81s. 6d., c.i.f. Broken 80s., in bond, and 75s., c.i.f.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb.; OOOO, 6s. 1d.; OOO, 6s.; OO, 5s. 11d.; O, 5s. 10d.; firsts, 4s. 0½d.; quillings, 2s. 7½d.; chips, 7½d.

ERGOT.—For shipment Portuguese is 15s. 6d. per lb., c.i.f., and Polish, 7s. 6d., c.i.f. Spot, Portuguese is 16s. 9d.; Hungarian 9s. to 11s. as to test.

GALANGAL.—Root is quoted at 75s. per cwt., c.i.f., for shipment, and spot, 85s.

GENTIAN.—French natural on the spot is from 105s. to 107s. 6d. per cwt.

GUM ACACIA.—Kordofan cleaned sorts on the spot are easier at 160s. per cwt.; January-February 1955 shipment, 135s.; February-March, 132s.; March-April, 130s., c.i.f.

HONEY.—Steady. Australian light-amber is offered on the spot at from 100s. to 108s. per cwt. and medium-amber, 95s. to 100s. Jamaican is from 125s. to 135s. Argentine stocks are cleared.

HYDRASTIS.—Root is 18s. per lb., on the spot.

IPECACUANHA.—Nicaraguan was quoted at 67s. 6d. per lb. on the spot and Costa Rican at 69s. 6d. Matto Grosso for shipment, 59s., c.i.f.; spot, 60s. Forward rates (c.i.f.) include Colombian at 61s. per lb.; Nicaraguan, 67s. 6d. and Matto Grosso (April shipment) 62s. 6d. On the spot Costa Rican high testing is offered at 70s. and Colombian at 62s. 6d.

KARAYA.—No. 1 gum on the spot is quoted at 335s. per cwt., and No. 2 at 235s.

KOLA NUT.—African halves are available on the spot at 5½d. per lb.

LANOLIN.—In 1-ton lots the price of ANHYDROUS, B.P., is about 200s. per cwt. and HYDROUS, B.P., 145s.

LIQUORICE.—Stocks of natural whole root are short on the spot. Quotations include: Anatolian at 70s. per cwt.; Russian, 65s.; Persian, 55s. Block juice quotations are 220s. per cwt. on the spot. Italian stick from 310s. to 475s. per cwt., duty paid.

MACE.—West Indian pale blade is 9s. 3d. per lb.; for January-February, 1955 shipment, 8s. 8d., c.i.f.

MENTHOL.—Dearer. Chinese is now 56s. per lb., duty paid and shipment (second-hand sellers), 54s., c.i.f. Brazilian afloat, 53s. 6d., c.i.f. and March-April, 53s.

MERCURY.—Nominal spot value is £110 per flask of 76-lb. ex-warehouse.

MYRRH.—Aden selected sorts are about £14 10s. per cwt. on the spot. Siftings are from £7.

NUTMEGS.—West Indian 80's quoted at 3s. per lb. on the spot and 2s. 9d., c.i.f., for shipment.

ORANGE PEEL.—Bitter quarters are offered at 1s. to 1s. 1d. per lb.

PAPAIN.—Spot value for East African grade one is 18s. per lb.

PEPPER.—White Sarawak on spot is dearer at 4s. 3d. per lb. with afloat parcels quoted at 4s. 2d., c.i.f. Black Sarawak is 3s. 3d. spot; afloat, 2s. 11½d. to 3s., c.i.f. Black Malabar is easier at 480s. per cwt. on the spot and January shipment, 335s. c.i.f.

PIMENTO.—Spot is 6s. per lb.

PODOPHYLLUM.—*Peltatum* is 330s. per cwt. on the spot. *Emodi*, afloat, 160s., no spot supplies.

QUASSIA.—Spot quotations for chips are about 45s.; April-May shipment is about 32s. 6d. per cwt.

RHUBARB.—Chinese is scarce on the spot with offers ranging between 6s. 9d. to 9s. 3d. per lb. as to quality. No offers for shipment.

SAFFRON.—Mancha superior is about 175s. per lb.

SEEDS.—(Per cwt.). **ANISE.**—Bulgarian nominally 220s., spot, duty paid.

CARAWAY.—Dutch remain firm with sellers at 180s., duty paid.

CELERY.—Indian is quiet, sellers quoting 155s. on spot.

CORIANDER.—Firm. Spot, Morocco, 80s., duty paid (75s., in bond). Danubian now landing quoted at 65s., duty paid. Morocco for shipment is 60s. to 61s., c.i.f.

CUMIN.—Steady. Spot Cyprian, 125s.; Morocco, 127s. 6d., duty paid. The latest quotations for shipment are Cyprian, 110s.; Morocco, 102s., c.i.f.

DILL.—Indian is quiet and unchanged at 100s., spot, London.

FENNEL.—Indian and Chinese in poor demand with sellers quoting 95s., for both qualities on spot.

FENUGREEK.—Morocco is firm on spot with sellers asking 55s. to 56s., duty paid.

MUSTARD.—English 70s. to 90s., according to quality.

SENEGA.—Spot value is 23s. 6d. per lb. with shipment offers at 24s., c.i.f.

HELLAC.—Fine orange, 450s. to 500s. per cwt., ex-London warehouse. Other grades are nominal.

SLIPPERY ELM.—Grinding quality bark is 2s. 7d. per lb., landed.

SCUILL.—Italian white on the spot is 80s. per cwt.

STRAMONIUM.—Indian LEAVES are 75s. per cwt., spot. Stocks of European are cleared on the spot.

STROPHANTHUS.—*Kombé* is 7s. 6d. per lb. on the spot.

STYRAX.—Spot is 5s. 7d. per lb., duty paid.

TONKA BEANS.—Frosted Para are 6s. per lb. nominal, spot.

TRAGACANTH.—Scarce with prices dearer for some varieties as follows:—No. 1 ribbon, £145 to £150 per cwt.; No. 2, £120 to £125; No. 3, £100 to £105.

TURMERIC.—Madras finger is nominal on the spot at 230s. per cwt. New-crop for March-April shipment is 122s., c.i.f. and April-May, 120s., c.i.f.

UVA URSI.—Spot offers are about 85s. per cwt.

VAIERIAN.—Indian is 145s. per cwt. on the spot and from 130s. to 145s., c.i.f. Belgian, 185s., spot.

VANILLIN.—Rates (per lb.) are:—

5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb..

30s. 6d.; smaller quantities, 30s. 9d.

WAXES.—**BEES'**—Dar-es-Salaam, spot

510s. per cwt., with January-February shipment, 485s., c.i.f.; Sudanese, 475s.,

duty paid and 435s., c.i.f.; Abvssinian, spot, 480s., duty paid, and shipment, 425s., c.i.f.

CANDELILLA.—Spot is 570s. per cwt. forward, 570s., c.i.f.

CARNAUBA.—Prime yellow on the spot is 900s. per

cwt., shipment, 815s., c.i.f.; fatty grey is 570s. on the spot; shipment, 540s., c.i.f.

MONTAN.—Reibeck, crude, 115s. per cwt., spot.

SPERMACETI.—Case lots are about 2s. per lb.

WITCH HAZEL LEAVES.—Firm at 1s. 9d. per lb. on the spot.

Essential and Expressed Oils

ANISE.—Chinese is quoted at 19s. 9d. per lb. on the spot and 19s. 6d., c.i.f.

BAY.—West Indian is 13s. per lb. on the spot.

BERGAMOT.—Spot value is about 80s. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

CARAWAY.—English-distilled is offered at 45s. and imported oil at 29s. 6d. per lb.

CARDAMOM.—Price per lb. is from 370s. for English-distilled and 295s. for imported.

CASSIA.—Original drums are about 11s. 6d. per lb. for spot with 12s. to 14s. 6d., c.i.f., asked for shipment.

CASTOR.—In minimum 2-ton lots the price of pharmaceutical quality for prompt delivery is £121 per ton, naked ex mill. For forward delivery the price is £116 (February-March).

CEDARWOOD.—Spot quotations for rectified are now 7s. per lb. with Atlas at 5s. CHENOPODIUM.—1-cwt. lots are 49s. per lb.

CINNAMON.—B.P. oil on the spot is quoted at from 77s. 6d. per lb. English distilled from bark is quoted at 27s. 6d. to 30s. per oz. Ceylon leaf, 13s. per lb., spot.

CITRONELLA.—Ceylon is 7s. 6d. on the spot and 6s. 10d., c.i.f., January shipment; Formosan, 11s. 9d., in bond and c.i.f.; Java, 12s., in bond, and 11s. 9d., c.i.f.

CORIANDER.—Russian-seed oil is offered at from 100s. per lb.

CUBEB.—English distilled is 50s. per lb. and imported, 47s. 6d.

CUMIN.—Quotations for English-distilled oil are about 75s. per lb. and imported, 57s. 6d.

GINGER.—English-distilled oil is from 140s. per lb. Imported oils are available at 100s. per lb.

HYDROCARPUS.—Spot is scarce at 2s. 2d. per lb.

JUNIPER BERRY.—Imported oils are offered at 17s. 6d. per lb., duty paid. English-distilled is offered at 75s. to 80s. per lb.

LAVENDER.—Scarce. 38-40 per cent. linalol on the spot is 60s. to 65s. per lb. 40-42 per cent., 100s., nominal.

LEMONGRASS.—Spot is 18s. 9d. per lb. with shipment at 18s. 6d., c.i.f.

LIME.—Supplies of West Indian distilled are offered from 37s. 6d. to 40s. per lb. on the spot.

PALMAROSA.—East Indian is 57s. 6d. per lb., on the spot, and 55s., c.i.f. for shipment.

PATCHOULI.—Penang is 51s. 6d. per lb., duty paid and 53s., c.i.f.

PENNYROYAL.—Spot value is from 17s. to 18s. per lb., duty paid.

PEPPERMINT.—*Arvensis* : Chinese is firmer at 46s. per lb., all positions. Brazilian is now 36s., spot and 35s., c.i.f. Italian " Mitcham " type oil is 65s. and 62s. 6d., c.i.f. and American, 65s., c.i.f.

ROSEMARY.—Spanish oil on the spot is from 5s. 3d. to 5s. 9d. per lb., duty paid, as to quality.

RUE.—Firm. Spot offers are from 14s. per lb.

SAGE.—Spanish is offered at from 8s. per lb and Dalmatian at 50s., duty paid.

SANDALWOOD.—Mysore is from 65s. per lb. as to quantity; East Indian, 62s. 6d.; Australian, 47s. 6d. to 50s.

SASSAFRAS.—Brazilian on the spot is 8s per lb.

SPEARMINT.—Offers of U.S.P. quality vary between 33s. 6d. and 38s. per lb. on the spot. Dutch quoted at 32s. 6d., duty paid.

TANGERINE.—Scarce at 42s. 6d. per lb., spot.

THYME.—B.P.C. is about 9s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, JANUARY 4: Low-cost competition from foreign material has brought reductions in P.A.S. to \$3.40 per lb. (down 10 cents); in PENTOBARBITAL SODIUM to \$6.60 (down 40 cents); and in HOMATROPINE METHYL BROMIDE to \$7.25 per oz. (down 50 cents). Lower per lb. among CRUDE DRUGS are No. 1 Kobé AGAR at \$2.90 (10 cents); and TOLU BALMAM at \$2.95 (30 cents). Californian LEMON OIL is easier at \$4.65 per lb. (down 10 cents).

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," December 15, 1954.

For medicines for internal use (5)
PHOLTUSSIN, 735,357, by Harris, Ltd., Birmingham.For pharmaceutical preparations for the treatment of chilblains (5)
CHILVAINS, 735,092, by Chilva Laboratories, Ltd., Bradford, Yorks.

From the "Trade Marks Journal," December 22, 1954

For chemical compounds for use in the rubber industry to retard vulcanisation (1)
VULKALENT, 724,063, by Fabriken Bayer, A.G., Leverkusen, Germany.For chemical products for use in the manufacture of synthetic rubber to increase its hardness (1)
VULKADUR, 731,268, by Farben Fabriken Bayer, A.G., Leverkusen, Germany.For synthetic resins and mouldable plastics for use in industry (1)
MELMEX, 733,488, by British Industrial Plastics, Ltd., London, W.1.For preparations for preventing misting of spectacles and lenses (1)
SPRITE, 732,945, by the Hadley Co., Ltd., Surbiton, Surrey.For synthetic resins (1)
MICROBOND, 734,774, by Micron Plastics, Uxbridge, Middlesex.For adhesive substances used in industry (1)
CADEC, 735,170, by Horatio Davies, Ltd., Eccles, Lancs.For sensitised medical and industrial x-ray films and chemicals for use therewith (1)
RONTEX, 736,282, by Dufay, Ltd., London, S.W.1.For chemical substances for use in agriculture and horticulture (1)
LEEFEX, 735,369, by Plant Protection, Ltd., Yalding, Kent.

For dietetic foods, and infants' and invalids' foods (5)

VIBON, 735,922, by the Nestle Co., Ltd., Hayes, Middlesex.

For chemical products (1)
DUOMEEN, 735,705, by Armour & Co., Illinois, U.S.A.For pharmaceutical and veterinary preparations and sanitary substances, all containing ephedrine (5)
KHEFEDRIN, 723,010, by Dr. Werner Janssen, Bonn, Germany.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, January 9

CATHOLIC PHARMACEUTICAL GUILD, 20 Alexandra Drive, Liverpool, 17, at 3.15 p.m. Meeting.

Monday, January 10

NORTH LONDON PHARMACEUTICAL ASSOCIATION, Red Lion Hotel, Barnet, at 7.30 for 8 p.m. Dr. J. A. Hobson (a leading psychiatrist) on "The Treatment and Cure of Alcoholics."

SOCIETY OF CHEMICAL INDUSTRY, Chemical Society's rooms, Burlington House, Piccadilly, London, W.1, at 6.30 p.m. Dr. F. Ehrmann on "Trends in the German Chemical Industry Since the War."

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 7.30 p.m. Film display by Esso Petroleum Co., Ltd.

WIMBLEDON PHARMACISTS' ASSOCIATION, Prince of Wales Hotel, Wimbledon, at 7.45 p.m. Mr. S. M. Lennox (sales manager, The British Drug Houses, Ltd.) on "C.F. at the Cross-roads."

Tuesday, January 11

BIRMINGHAM PHARMACEUTICAL ASSOCIATION and BRANCH, Imperial Hotel, at 8 p.m. Mr. W. Talvan Rees (vice-chairman of the N.P.U.) on "Pharmaceutical Service."

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Parke, Davis & Co., Ltd., Staines Road, Hounslow. Mr. G. E. Mann on "Functions of the Sales Department."

Wednesday, January 12

BIRMINGHAM PHARMACEUTICAL ASSOCIATION and BRANCH, Botanical Gardens, Edgbaston, at 8 p.m. Carnival dance.

BRADFORD BRANCH, PHARMACEUTICAL SOCIETY, Queen's Hall, Bradford, at 7.30 p.m. Dance.

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Craig's restaurant, 51 Union Street, Glasgow, C.1, at 7.45 p.m. Open discussion.

MANCHESTER PHARMACEUTICAL ASSOCIATION and BRANCH, Grand Hotel, Aytoun Street, Manchester, at 6.15 p.m. President's evening. Dinner, whist-drive and dance.

WEMBLEY CHEMISTS' ASSOCIATION, Terry's café, Sudbury, at 8 p.m. Whist drive.

WESTERN [LONDON] PHARMACISTS' ASSOCIATION, Bonnington Hotel, Southampton Row, London, W.C.1, at 7.15 for 7.30 p.m. Address by Mr. H. Noble (secretary, National Pharmaceutical Union).

MICROBIOLOGY GROUP, SOCIETY OF CHEMICAL INDUSTRY, Institution of Civil Engineers, Great George Street, Westminster, London, S.W.1, at 2.15 p.m. Papers on aeration in industrial fermentations.

Thursday, January 13

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION, the Coach and Horses Hotel, Merton, at 7.30 p.m. Dinner and dance.

BOURNEMOUTH PHARMACEUTICAL ASSOCIATION, Grand Hotel, Bournemouth, at 7.30 p.m. Mr. A. L. Bacharach (Glaxo Laboratories, Ltd.), on "Matters of Taste."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metropole Hotel, Leeds, at 7.45 p.m. Mr. G. H. Wright on "A Satire on Bee Keeping."

SOUTH-EAST LONDON CHEMISTS' ASSOCIATION and BRANCH, Pyne's restaurant, 153 Lewisham Way, London, S.E.14, at 6.30 for 7 p.m. Dinner and dance.

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, Royal Hotel, South Shields, at 7.30 p.m. Address by Mr. T. Hecliffe (past-president of the Pharmaceutical Society).

Friday, January 14

HULL CHEMISTS' ASSOCIATION and BRANCH, Imperial Hotel, Hull, at 8 p.m. Mr. J. Wright (assistant secretary, National Pharmaceutical Union) on "N.H.S. Matters."

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, chemistry lecture theatre, King's College, Strand, London, W.C.2, at 7 p.m. Dr. H. S. Turner on "The Synthesis of Radiochemically Labelled Fine Chemicals."

SOCIETY OF COSMETIC CHEMISTS OF GREAT BRITAIN, Royal Society of Tropical Medicine and Hygiene, Manson House, 26 Portland Place, London, W.1, at 7 p.m. Dr. L. Ivanovsky on "Waxes." Non-members invited.

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for December was 196

Cost		Item	Poison Class	4 oz.	1 oz.	1 dr.
d.	per			s. d.	s. d.	s. d.
73	100 gm.	Balsam Peruvianum		—	3 0	0 5
144	100 gm.	Balsamum tolut.		—	5 10	0 10
94	100 gm.	Coccus		—	3 11	0 7
48	500 gm.	Cremor zinci. oxid., B.P.C.		1 7	0 6	0 1
36	25 gm.	Iodoformum		—	6 2	0 11
37	25 gm.	Ol. anisi		—	6 3	0 11
240	gal.	Ol. arachis		0 11	0 3	—
103	100 mil.	Ol. graminis citrati		—	4 3	0 7
75	25 gm.	Ol. menth. pip., B.P.		—	12 6	2 0
33	500 gm.	Ol. ricini, B.P.		1 1	0 4	0 1
30	10 gm.	Physostigmin. salicylas	S.1. (4)	per	gr.	2 11
31	10 gm.	Physostigmin. sulphas	S.1. (4)	per	gr.	2 10
54	500 gm.	Sapo animalis pulv.		1 10	0 6	0 1
93	500 mil.	Spt. myrciae co., B.P.C. '49 meth.		3 6	1 0	0 3
29	25 gm.	Sodii iodid.		—	4 10	0 8 1/2
72	25 gm.	Theobromina		—	—	2 0
54	25 gm.	Theobromin. et sodii salicyl.		—	—	1 5
150	500 mil.	Tinct. cinchonae co.		4 10	1 4	0 2 1/2
66	100 mil.	Tinct. ergot. ammon., B.P.C. '34		—	2 9	0 5
135	500 mil.	Tinct. lobeliae aether	S.1. (5)	1 8	0 6	0 1
156	100 gm.	Tragacantha		4 4	1 2	0 2
168	100 gm.	Tragacantha pulv.		—	6 3	0 11

		TABLETS	25	100
			s. d.	d.
72	1,000	Calomel gr. 1/8	0 11	1 10
75	1,000	Calomel gr. 1/4	0 11	1 11
93	1,000	Calomel gr. 1/2	1 0	2 2
147	1,000	Calomel gr. 1	1 2	2 11
258	1,000	Calomel gr. 2	1 7	4 3
63	1,000	Grey powder gr. 1/2	0 10	1 10
78	1,000	Grey powder gr. 1	0 11	2 0
114	1,000	Grey powder gr. 2	1 1	2 5
240	1,000	Fecri gluconas gr. 5	1 6	4 0
177	1,000	l-Thyroxine 0.05 mgm.	1 3	3 3

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *=Tax 25 per cent.; †=Tax 75 per cent.

THE BRITISH DRUG HOUSES, LTD.,
BRITISH SCHERING, LTD., CIBA LABORATORIES, LTD., ORGANON LABORATORIES, LTD., PAINES & BYRNE, LTD., and ROUSSEL LABORATORIES, LTD.

THE following hormone preparations include only those packs which are common to all the above companies. It should be noted that only prices to chemists are quoted, because retail prices vary in accordance with discount rates. Except where otherwise stated, other packs of a particular hormone not quoted are similarly reduced in price. New prices are effective from January 10.

Deoxycortone acetate

B.P. injections	Each
ampoules 5 mgm.	50 83 0 R
10 mgm.	50 149 6 R

Implantation pellets are unchanged.

Brand names of the above: Doca (Organon), Syncortil (Roussel), Cortiron (British Schering (packings are 2 mgm., 5 mgm., and 10 mgm. in boxes of 4, 25 and 100 ampoules); Percorten (Ciba (Lingettes, Crystules and deoxycortone glucoside)); Decortacetate (Paines & Byrne (tablets unchanged)).

Ethynodiol tablets B.P.

0.05 mgm.	100 3 10 R
Tablets of 0.01 mgm., 0.02 mgm., and 0.05 mgm. (25 sizes only) a/c unchanged.	

Brand names: Ethidol (British Schering); Lynoral (Organon); Estignyn (B.D.H.); Ethinodiol (Roussel); Eticyclin (Ciba).

Ethisterone tablets, B.P.

5 mgm.	25 5 2 R
100	16 8 R
500	78 0 R
1,000	154 0 R
10 mgm.	25 8 8 R
100	31 0 R
500	150 0 R
1,000	298 0 R
25 mgm.	25 18 0 R
100	68 0 R
500	336 0 R
1,000	670 0 R

Brand names: Progestrol (Organon); Gestone-Oral (Paines & Byrne); Oraluton (British Schering (no pack of 1,000)); Lutogyl-Oral (Roussel); Lutocyclin (Ciba (the Lingettes are the same price as the tablets)).

Methyl testosterone tablets

5 mgm.	25 5 6 R
100	18 6 R
500	88 0 R
1,000	174 0 R
10 mgm.	25 9 6 R
100	35 0 R
500	170 0 R
1,000	338 0 R
25 mgm.	25 21 6 R
100	84 0 R
500	408 0 R
1,000	814 0 R
50 mgm.	25 41 0 R
100	160 0 R
500	796 0 R
1,000	1,590 0 R

Brand names: Oraviron (British Schering (no pack of 1,000)); Perandren tablets and Lingettes (Ciba); Viormone-Oral (Paines & Byrne); Glosso-Sterandryl (Roussel).

Oestradiol monobenzoate

B.P. injection	1 mgm.	6 5 0 R
	100	63 0 R
	5 mgm.	6 13 0 R
	100	191 0 R

Implants unchanged.

Brand names: Oestroform (B.D.H.); Dimentroform (Organon); Benztrone (Paines & Byrne); Benzo-Gynoestrol (Roussel (1 mgm., and 5 mgm. in packs of 6, 12, and 50 only)); Progynon B oleum (British Schering (above strengths in boxes of 3, 5, 25 or 100 ampoules)); Ovocyclin (Ciba (Crystules, Lingettes, implants, cream and ointment unchanged)).

Progesterone B.P. injection.

5 mgm.	6 5 4 R
10 mgm.	6 7 2 R
25 mgm.	6 13 6 R

Ampoules of 2 mgm., 10-c.c. vials of 250 mgm., and implants are unchanged.

Brand names: Gestone (Paines & Byrne); Lutogyl (Roussel (strengths as above, in boxes of 3, 12 and 50 ampoules)); Proluton (British Schering (packings are 5 mgm., 10 mgm., and 25 mgm., in boxes of 3, 10, 25 and 100)). Lutocyclin (Ciba (Crystule ampoule of 50 mgm. is unchanged)).

Testosterone propionate

B.P. injection	5 mgm.	6 4 8 R
	10 mgm.	3 3 6 R
	6	6 2 R
	25 mgm.	3 5 8 R

50 mgm.	6 10 8 R
50 mgm.	3 9 8 R
6	18 4 R
100 mgm.	3 18 0 R
6	35 0 R

Implants and ointment are unchanged.

Brand names: Perandren (Ciba); Viormone (Paines & Byrne); Neo-Hombreol (Organon (5 mgm., and 10 mgm. in boxes of 4, 12, 20, 50 and 100 ampoules); 25 mgm. in boxes of 2, 6, 10, 50 and 100 ampoules); 50 mgm. in boxes of 3, 6, 12, 50 and 100 ampoules; 500 mgm. in boxes of 3, 6, 12, 50 and 100 10-c.c. vials); Testoviron (British Schering (packings are 10 mgm., in boxes of 4 and 10 ampoules; 25 mgm. in boxes of 2, 10 and 25 ampoules); 50 mgm. in boxes of 3, 10, 25 and 100 ampoules; 500 mgm. in boxes of 3, 10, 25 and 100 ampoules); Sterandryl (Roussel).

THE BRITISH DRUG HOUSES, LTD. (from January 10)

Amepilin tablets	Each	I.R.P.
100	13 6	20 3 R
540	63 0 R	

2 x 500 87 0 R

The 25-pack and the elixir are unchanged.

Ostroform aqueous ampoules, 1 mgm. in 1 mil	6	5 0	7 6 R
25	18 0	27 0 R	
2 mgm. in 1 mil	6	9 0	13 6 R
25	34 0	51 0 R	
5 mgm. in 1 mil	6	13 0	19 6 R
25	50 0	75 0 R	

The 25-pack and the elixir are unchanged.

Testoform aqueous ampoules, 5 mgm. in 1 mil	6	4 8	7 0 R
25	17 0	25 6 R	
10 mgm. in 1 mil	6	6 2	9 3 R
25	23 2	34 9 R	
25 mgm. in 1 mil	6	10 8	16 0 R
23	42 0	63 0 R	
50 mgm. in 1 mil	3	9 8	14 6 R
25	74 2	111 3 R	

The 25-pack and the elixir are unchanged.

CIBA LABORATORIES, LTD. (from January 10)		
Femandren Lingettes	25	5 3 R
100	15 6 R	
500	71 9 R	
1,000	140 6 R	

The 25-pack and the elixir are unchanged.

Protandren Lingettes	25 mgm.	25 29 0 R
100	110 9 R	
500	544 6 R	
1,000	1,086 0 R	

The 25-pack and the elixir are unchanged.

COOPER, McDougall & Robertson, LTD.		
Moth-aire		5 6 R
		9 6 R

The 25-pack and the elixir are unchanged.

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD. (from January 10)		
Dibencil oral suspension		8 4 R
Sulmeizil oral suspension		
50 c.c.		7 6 R
500 c.c.		60 0 R
tablets		
25		12 6 R
100		45 0 R
500		200 0 R

The 25-pack and the elixir are unchanged.

ELI LILLY & CO., LTD. (from January 10)		
Neolin oral suspension		10 0 R
Rebate claims must indicate the batch number and the wholesaler, and reach Messrs. Lilly by January 15.		

The 25-pack and the elixir are unchanged.

COOPER, McDougall & Robertson, LTD. (correction)		
Cooper's household aerosol		Doz.
6 oz.	58	6 6 6

The 25-pack and the elixir are unchanged.

PLough INCORPORATED (Distributors : FASSETT & JOHNSON, LTD.)		
Nujol*	8 oz.	13 8
	16 oz.	22 11 3 6 A
Cream of Nujol*	16 oz.	32 0 4 6 A

Nujol with phenolphthalein, discontinued.

WARD, BLENKINSOP & CO., LTD.		
Penetrone applicator set (modified)		7 6

The 25-pack and the elixir are unchanged.

CHILTON ELECTRIC PRODUCTS, LTD.		
Buk electric dry shaver*		113 7
Kub*		79 11
dual volt*		95 0

The 25-pack and the elixir are unchanged.

GOYA, LTD.		
Flamingo lipstick†		5 0
refill†		2 9

The 25-pack and the elixir are unchanged.

PRITCHARD'S LTD.		
DDT spray		3 9

The 25-pack and the elixir are unchanged.

ROBERTS WINDSOR SOAP CO., LTD.		
Windsor toilet soap		10

The 25-pack and the elixir are unchanged.

T. L. BENTON & CO., LTD.		
Chandau lacquer	24	0 3 6
refill	10	0 2 3



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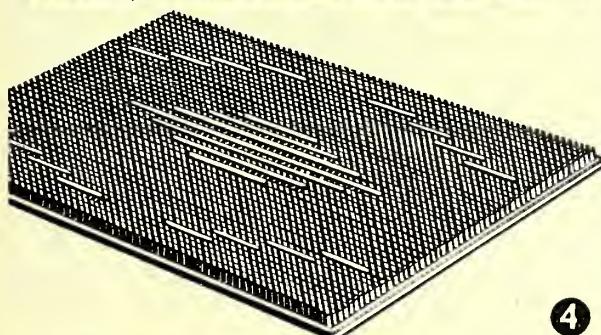
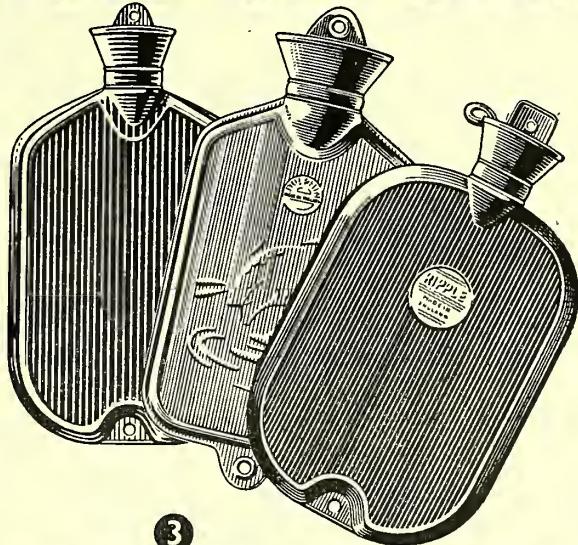
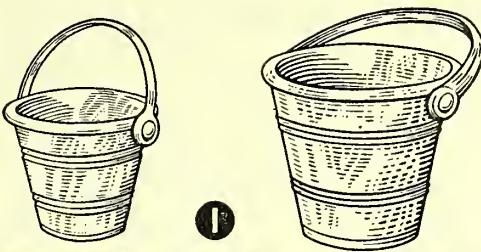
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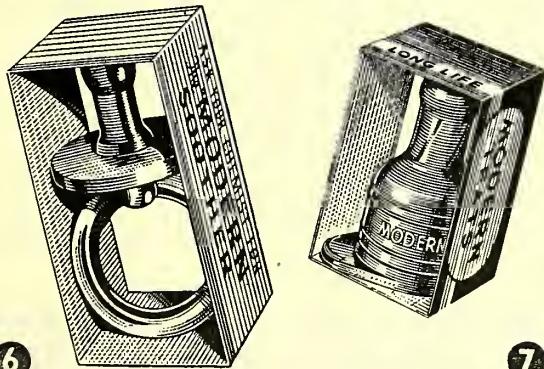
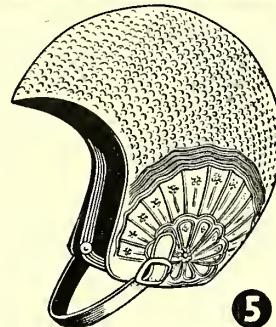
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- 3 HOT-WATER BOTTLES
- 4 MULTI-PURPOSE MAT
- 5 BATHING CAPS
- 6 'MODERN' SOOTHER
- 7 'MODERN' TEAT



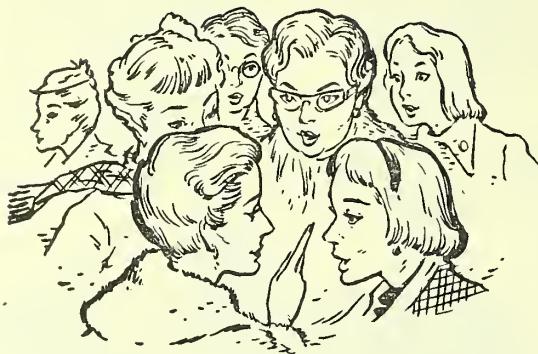
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NEW! Multi-purpose RUBBER MAT in green, blue, black or terra-cotta. Sturdy $\frac{1}{2}$ -inch rubber brush pile; $20\frac{1}{4} \times 14\frac{1}{4}$ inches. For car, kitchen, door and many other uses.

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(1A & 1B bottle)	(4A & 4B bottles)
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plus P.T.	plus P.T.
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It is also available as a rapidly dispersible paste.

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'Milk of Magnesia' REGD.

Of unsurpassed efficacy in the treatment of a wide variety of conditions associated with gastric acid disturbances.

'Mil-Par' REGD.

A genuinely mild evacuant ideally suited for administration to young infants, the enfeebled, sick or elderly.

'Milk of Magnesia' Tablets

Particularly valuable to the chronic or casual sufferer from dyspepsia and acid indigestion. Pleasantly mint flavoured.

Phillips' Dental Magnesia Toothpaste

A dentifrice of proved efficacy in keeping the teeth scrupulously clean. Contains 'Milk of Magnesia' to neutralize harmful mouth acids.



Approved by the Family Planning Association for use in conjunction with a mechanical barrier.

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TRADE MARK

The scientifically balanced antiseptic deodorant contraceptive—in tablet form.

COATES & COOPER LTD *Pyramid Works,
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GUIDANCE . . .

Guidance on methods of family planning is often welcome and does much to remove anxiety and promote a patient's mental and physical well-being. The modern contraceptive, GYNOMIN, inspires confidence with its high spermicidal efficiency. GYNOMIN is absolutely harmless to health, non-greasy and clean in application, and keeps perfectly in all climates.

SPECIAL QUANTITY DISCOUNTS MEAN EXTRA PROFITS

3 doz. tubes at 31/6 per doz. less 5%	
6 "	" " " " " 7½%
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Retail price 3/6 per tube of 12 tablets.	

Order from your wholesaler.

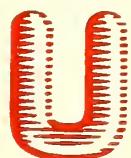
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Containers—
with all fittings

Corrugated pull-through boxes
with or without divisions, of course!

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UNITED GLASS BOTTLE MANUFACTURERS LIMITED

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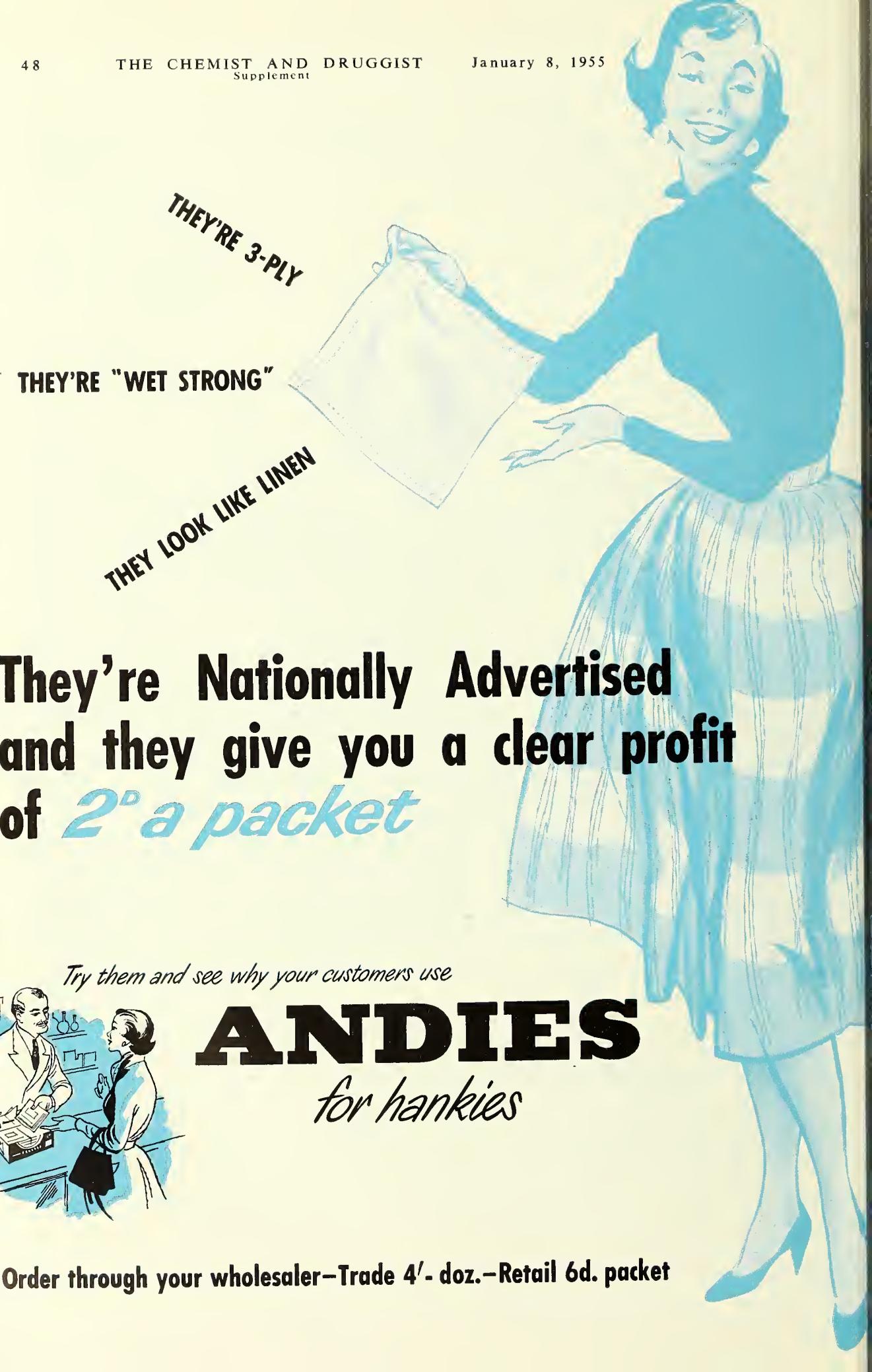
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and they give you a clear profit
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Try them and see why your customers use



ANDIES
for hankies

Order through your wholesaler—Trade 4/- doz.—Retail 6d. packet





Display Dispenser holds 1 doz.

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Quality in White Flint Glass Containers



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DISPENSING BOTTLES

1-oz. to 20-oz.

BOW-FRONT PANELS

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TABLET BOTTLES

Nos. 1 to $7\frac{1}{2}$ sizes.

ROUND SCREW JARS

Tall and Semi-squat.

RIBBED OVALS

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 $2\frac{1}{2}$ -oz., 5-oz. & 10-oz.

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WHOLESALE ONLY

Bow-Front Panels now also
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NOW comes an old friend in a NEW dress



The new D.C.L. Vitamin B₁ Yeast Counter Unit will make a tremendous difference to your sales for this well proven line. It is colourful, neat and attention compelling.

STRONG ADVERTISING BEGINS JAN. 15

A new campaign featuring well-reasoned, down to earth advertisements, will send customers to you as soon as it begins. They will come convinced that D.C.L. Yeast Tablets will do them good. You can confirm everything these advertisements claim. There are NO exaggerations, NOTHING misleading or equivocal. Every statement can be proved to the hilt.

30,000,000 ADVERTISEMENTS TELL 80,000,000 READERS ABOUT D.C.L. VITAMIN B₁ YEAST TABLETS

D.C.L. Vitamin B₁ Yeast Tablet advertisements will appear in National and Provincial newspapers and in the large circulation magazines during the coming months.

STOCK UP NOW AND BE READY

Supplies are now at your usual wholesale house. Send YOUR order without delay and put your display units in position so that you can take full advantage of the demand. Remember the first of the new series of advertisements appears in the National Press during the week ending January 15th, and others follow on for months during the best selling season. Send your order to your wholesale house today, NOW.

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DISINFECTANTS & ANTISEPTICS

- CARBOLIC FLUIDS
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with Co-efficients 2 to 24
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(Under the Diseases of
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Ready for use and harmless to livestock
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Rodine products are good selling lines,
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*are always available
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GIBSON'S SUPER QUALITY

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"NIPITS"

a little warmer



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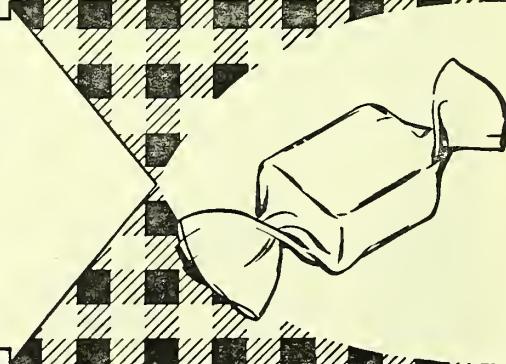
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HERE'S A SWEET PROFIT!

These are our new sweets—and how they're selling!
Butterscotch flavoured, they contain glucose for quick
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Vegeto-Polyhormonic Hypotensor

*The recognised treatment in conditions
requiring the lowering of arterial tension*

DETENSYL is another in the series of M.B.L. preparations which, after stringent laboratory and clinical tests, have been accepted by the Medical professions of many countries. In various indications associated with blood pressure, regular administration, as prescribed, restores normality. Subsequently a small, periodic dosage is recommended for maintenance.

DETENSYL is prepared in the form of tablets, from mistletoe, liver, pancreas and lung substances. It is more than a palliative because it re-educates the endocrine glands, allowing them to resume their regulation of the arterial tension. Although mistletoe, the chief constituent, is itself a proved hypotensor, without the supplementary elements its action would be neither so rapid nor so prolonged.

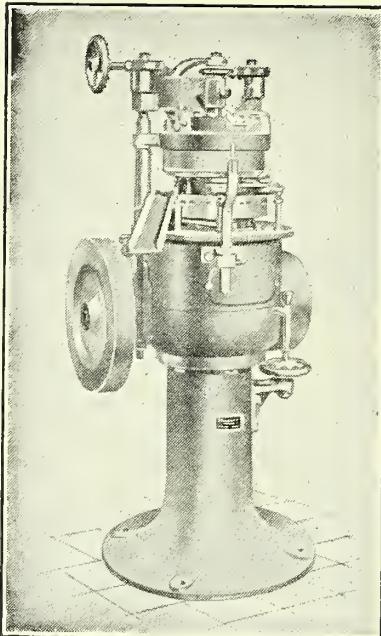


INDICATIONS

Conditions frequently associated with blood pressure, such as **Menopausal Disturbances, Arteriosclerosis, Sclerosis of the Kidneys, Persistent Cephalgia, Arthritis and Auditory and Ocular Troubles**, respond to DETENSYL therapy and almost inevitably disappear with the lowering of arterial tension.

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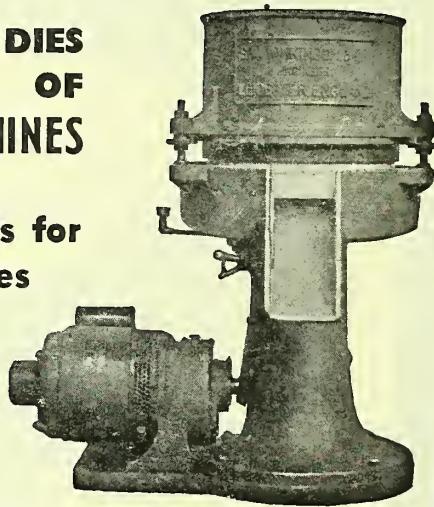


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TODAY, the pharmacist is faced with an almost bewildering assortment of emulsifying agents, all having varying properties and requiring different methods of treatment. In this book the considerable range of these products has been classified, together with essential practical points about their pharmaceutical use. It contains chapters devoted to the theory of the formation of emulsions, properties of different emulsifying agents (classified into groups according to their structure and characteristics), the formulation and preparation of emulsions, the general methods of preparing emulsions with details of technique and causes of emulsion separation, preservation and storage of emulsion, etc. The practical uses of emulsifiers is dealt with at considerable length, together with methods of handling each type of emulsifying agent and full notes of incompatibilities and other matters. The book also contains a classified index of over 300 emulsifying agents with reference to their composition, type and uses, together with an index of manufacturers.

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new beautifully designed
show card size 23' x 17'
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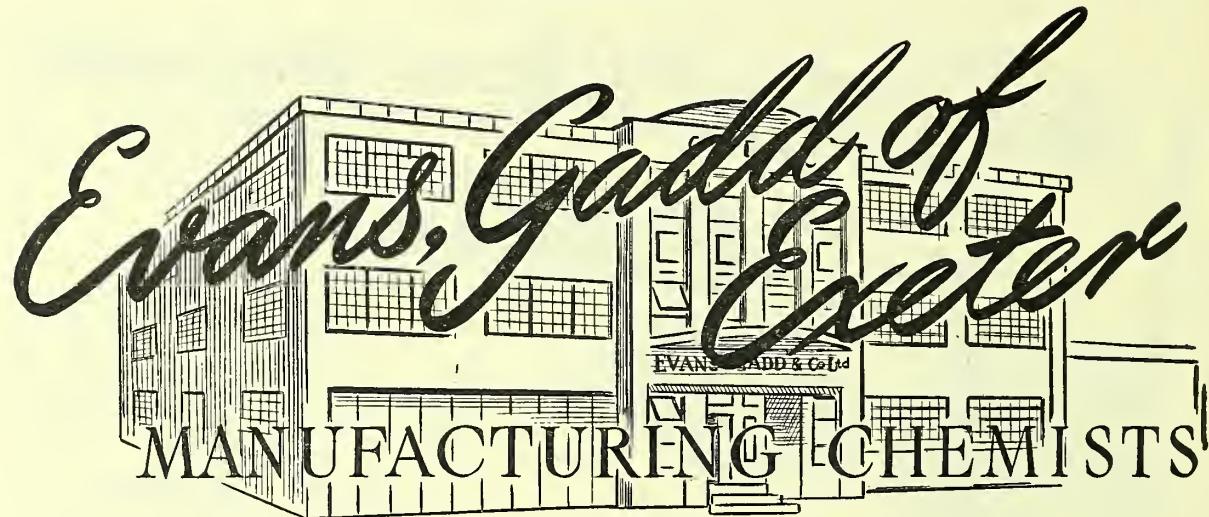
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There is a growing circle of discriminating people who appreciate high quality and insist on these soothing, protective, fragrant, mildly medicated Preparations, for care of the skin. Just display one each of these eye-catching firm family favourites in your attractive window, and make sure this steady all-the-year-round business comes your way.

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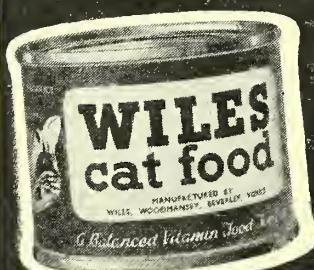
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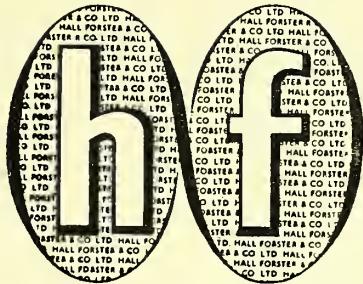
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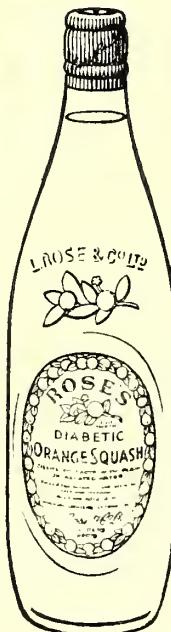
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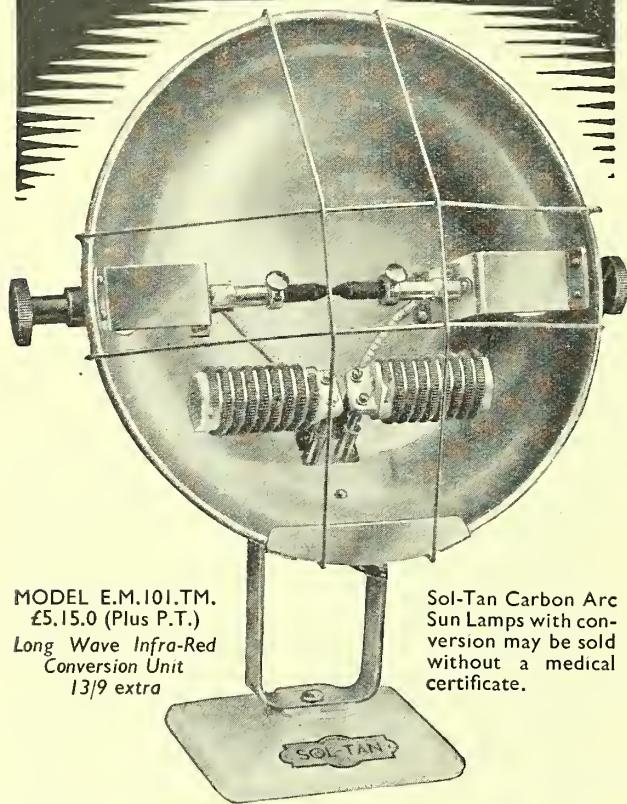
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For home, professional use and hospitals 'Sol-Tan' produce a wide range of Health Lamps and Electro Medical appliances. They are scientifically designed, fully tested and guaranteed for 12 months. Ask for details of the tax free Infra-Red Table model selling at the low price of £3.10.0.

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... and even if it's not urgent, wise folk will be in to buy a supply. They always keep Prestoband handy. They know from experience — and our national advertising ever reminds them — that it's by far the quickest, cleanest, healthiest way of dressing a wound or strapping a muscle. It's easy on, painless off, and no mess left behind!

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Generous trade terms. Packed in attractive counter display outers. 3 widths; 2", 1" or $\frac{1}{2}$ " at 1/6, 9d. or 7d. a 4-yard roll.

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Over 10d BOX PROFIT by ordering 1 dozen
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It pays to push this size.

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AT COMPETITIVE PRICES**

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Wyeth announce the following price reductions of
Beplete and Bplex preparations to take effect
from Monday, January 10th, 1955.

Price to Pharmacists :

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Elixir ... 4 oz. size ... Old	5/8d. each	New 4/8d. each
40 oz. size ... Old	45/- each	New 37/6d. each
Tablets ... 50's ... Old	5/8d. each	New 4/8d. each
250's ... Old	22/6d. each	New 18/9d. each

B E P L E X

Elixir ... 4 oz. size ... Old	4/6d. each	New 3/9d. each
40 oz. size ... Old	33/9d. each	New 28/1d. each
Capsules 50's ... Old	4/6d. each	New 3/9d. each
250's ... Old	17/8d. each	New 15/- each

'Beplete' and 'Bplex' are the registered trade marks of

JOHN WYETH AND BROTHER LIMITED

CLIFTON HOUSE, EUSTON ROAD, LONDON, N.W.1

Two outstanding preparations

PARENTROVITE

A new injectable preparation of B-vitamins and vitamin C in high concentration designed especially for treatment of the patient who is toxic, possibly with coma or delirium, from

overdosage with narcotics or barbiturates, excessive consumption of alcohol, viral or bacterial infections.

Ampoules are available in pairs of 5 c.c. for intravenous injection in acute conditions, and in smaller volumes for intramuscular injection in less urgent cases or for maintenance therapy.

PACKS AND PRICES

	Nett Price to chemist	All prices are per box of 3 pairs of ampoules
PARENTROVITE (<i>Intravenous</i>)	9/9	
PARENTROVITE (<i>Intramuscular</i>) <i>high potency</i>	9/9	
PARENTROVITE (<i>Intramuscular</i>) <i>maintenance</i>	7/6	

Omnivite forte

A preparation in tablet form for continuation treatment of psychoses after initial detoxication, and maintenance in such conditions as depressive states and senile dementia.

The vitamins known to be concerned in intracellular metabolism are present in amounts found by clinical trial to be effective.

PACKS AND PRICES

AVAILABLE IN PACKS OF 100 TABLETS Nett price to chemist 21/- per 100.

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EDITORIAL POST

A vacancy occurs on the editorial staff of THE CHEMIST AND DRUGGIST for a male pharmacist aged 25-30. The work entails handling news of pharmaceutical affairs and preparing it to appear in print. Experience of journalism is not required but an interest in events and some fluency in writing are essential. The work is exacting, demanding accuracy and speed (even working against time) but is varied and interesting. Apply in writing to the Editor, THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2.

C 7956

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LEWES, Sussex. To let. Reasonable rent. Shop premises with good living accommodation above. Best multiple position one door from Woolworths. Ideal for a progressive and established chemist. Full details from Edward Erdman & Co. (Shops Department), 6 Grosvenor Street, W.1. Mayfair 8191. C 2035

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Applications are invited for the under-noted vacancy:—

**Senior Pharmacist
(resident or non-resident)**

at the SHOTLEY BRIDGE GENERAL HOSPITAL (557 beds).

Appointment offers a thorough experience in all branches of hospital pharmacy. Applicant would be responsible for the manufacture of sterile preparations. Salary and conditions of service according to the Pharmaceutical Whitley Council decisions.

Applications, stating age, qualifications and experience, together with names of two referees should be sent to the Secretary, Shotley Bridge General Hospital, Shotley Bridge, Consett, co. Durham. C 7947

NOTTINGHAM NO. 1 HOSPITAL MANAGEMENT COMMITTEE
**Pharmacist or Locum Pharmacist
(male or female)**

required for Highbury and Heathfield Hospitals, to commence duties as soon as possible. Salary of permanent post in accordance with the Whitley Council for the Health Services recommendations. Locum Fee £14 14s. Applications giving age, qualifications and experience, together with the names of two referees to be sent to the Group Secretary, General Hospital, Nottingham. C 7903

PRESTON AND CHORLEY HOSPITAL MANAGEMENT COMMITTEE, CHORLEY AND DISTRICT HOSPITAL
Pharmacist

Applications are invited from registered Pharmacists for the appointment of Pharmacist at the above hospital. Salary £450 x £25—£575. Higher qualification allowance of £25 payable where applicable. Whitley Council conditions. Applications in writing, with names of two referees, to be sent to the Group Secretary, Royal Infirmary, Preston, as soon as possible. C 7960

SWITZERLAND

Representation or Manufacturing under Licence

Important Swiss manufacturer of pharmaceuticals, well established on the Swiss market and having the necessary sales and propaganda organisation, would be interested in the representation or manufacturing under licence in Switzerland of English specialities which should have a modern and original composition and wide possibilities of application. Products for sale through public propaganda will also be taken in consideration. Any firm interested in our proposition is invited to send its offer with detailed documentation to Box C 7820.

MOORFIELDS WESTMINSTER & CENTRAL EYE HOSPITAL

Locum Tenens Pharmacist

Applications are invited for the position of Locum Tenens Pharmacist. Salary 16 guineas per week. Apply Chief Pharmacist, Moorfields Westminster & Central Eye Hospital, City Road, London, E.C.1. C 7948

SCUNTHORPE HOSPITAL MANAGEMENT COMMITTEE

Chief Pharmacist

Vacancy end January. Category III. Group of four hospitals with central Pharmacy. Non-resident. Present scale £680 x £25 to £780. Applications, naming two referees to Secretary, War Memorial Hospital, Scunthorpe, Lincs. C 7961

ST. BARTHOLOMEW'S HOSPITAL, LONDON, E.C.1

Pharmacists

Two vacancies exist for Pharmacists. Salary in accordance with the Whitley Council Scale. Write enclosing two copies of testimonials to The Pharmacist. C 7950

ST. LEONARD'S HOSPITAL, NUTTALL STREET, LONDON, N.1

Dispensing Assistant

Applications are invited for the post of Dispensing Assistant. Applications with names of two referees to the Hospital Secretary by January 15, 1955. C 7949

ST. PETER'S HOSPITAL, CHERTSEY, SURREY (404 Beds)

Pharmacist

required. Salary and conditions of service in accordance with Whitley Scales. Applications stating age and experience together with the names of two referees should be sent to the Hospital Secretary. C 7917

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Appointments—Continued**KING EDWARD VII HOSPITAL,
WINDSOR**

Assistant in Dispensing
required. Whitley Council salary. Applications
stating age, experience, qualifications and names
of two referees to Hospital Secretary. C 7919

**SOUTH-WEST MIDDLESEX
HOSPITAL MANAGEMENT
COMMITTEE**
**WEST MIDDLESEX HOSPITAL,
ISLEWORTH**

(Category V)
Pharmacist
required. Salary scale £450 x £25 to £575 plus
London Weighting. Higher qualifications allow-
ance £25 per annum. Whitley conditions
applicable.
Part-time Pharmacist, 26s. per session of 4
hours, if doing 24 hours or under.
Applications, stating age, qualifications and
experience with names of two referees to Chief
Pharmacist. C 7906

**SWINDON AND DISTRICT
HOSPITAL MANAGEMENT
COMMITTEE**

Assistant in Dispensing
Applications invited for post of Assistant in
Dispensing. Hospital experience desirable but
not essential. Candidates should be over
age 22. Salary £335—£435, plus £15 p.a. for
holders of A.H. Certificate or equivalent. App-
roved conditions.
Applications, with full details and names of
two referees, as soon as possible, to Secretary,
7 Okus Road, Swindon. C 7957

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

The engagement of persons answering these
advertisements must be made through a Local
Office of the Ministry of Labour or a Sche-
duled Employment Agency if the applicant is
a man aged 18-64 inclusive or a woman aged
18-59 inclusive unless he or she, or the em-
ployment, is excepted from the provisions of
the Notification of Vacancies Order, 1952.

RETAIL (HOME)

CAERNARVON, NORTH WALES. Private
company require a qualified manager. Lady
or gent. Permanent post. Normal hours.
Rota one week in eight. Excellent supporting
staff. Photographic knowledge an asset but
not essential. Apply D. G. Jones, Messrs.
Humphrey Jones & Sons, Ltd., 8 Bangor
Street, Caernarvon. C 2034

**DONCASTER CO-OPERATIVE CHEMISTS,
LTD.** require the services of three pharmacists
(male or female). Two as branch managers, one
as relief branch manager. 44-hour week; minimum
salary £780, plus rota pay, etc. There is
living accommodation for one branch manager.
Applications, giving usual details, to Secretary,
Doncaster Co-operative Chemists, Ltd.,
St. Sepulchre Gate, Doncaster. C 199

GLoucester. Branch shop requires unqual-
ified assistant, mainly for dispensing and some
counter work. Particulars to W. H. Hampton,
Ltd., Bristol Road, Gloucester. C 2017

HENDON. Qualified or unqualified dispensing
assistant, part or full time. Convenient position
for competent fully experienced lady or gentleman.
Usual particulars to Box C 7937.

ILFORD. Pharmacist required to manage ex-
panding branch close to busy main line
station. Up-to-date dispensary and excellent
supporting staff. Self-contained flat available
within easy distance of the branch. Attractive
salary and bonus scheme. Apply with full
details stating when available for interview to
Box C 2038.

NORTHAMPTON. Pharmacist Manager re-
quired for busy pharmacy, main road position.
Excellent prospects for really industrious lady
or gentleman. Salary £832 per annum and house
rent free. Usual particulars and copies of re-
ferences, to E. P. Northover, 32 Harlestone
Road. C 2024

LADY DISPENSER (unqualified) required for
good-class family dispensing business in old-
fashioned market town. Applicants should have
a nice manner and be quick and accurate.
Every assistance given in finding suitable ac-
commodation. Please give all details of age,
previous experience and salary required to
Wilfrid E. Dale, Ltd., 27 Market Place, An-
dover, Hants. C 2041

NORTH LONDON. Unqualified dispenser re-
quired for branch at Tottenham. Salary plus
bonus. Three weeks holiday a year. Per-
manency. Hours 9 a.m. to 6 p.m. Or an
experienced counter assistant. Apply stating
age and full details of previous experience to
A. R. Cross, Ltd., 476 Hertford Road, En-
field, or telephone Howard 1723 or 2916
for an appointment. C 7892

SOUTH WOODFORD. Pharmacist required to
manage attractive, well-fitted branch in
middle-class area with good dispensing. High-
class cosmetic and photographic connections.
Generous salary and commission. Permanency.
Apply with full details stating when available
for interview to Box C 2037.

TWICKENHAM. Excellent opportunity for
pharmacist to manage family-type business in
pleasant riverside district with good living
accommodation over. Permanency with
superannuation benefits. Good salary and
commission. Nicely fitted shop with adequate
supporting staff. Apply with full details stating
when available for interview to Box C 2039.

WELL-KNOWN FIRM of chemists' valuers
have vacancy for stocktake on permanent staff;
mainly Midland area; previous stocktaking ex-
perience not essential; good opportunity for
keen and intelligent applicant. Please state
brief details of career to date and commencing
salary required. All replies treated in strict
confidence. Box C 206.

WHOLESALE

A COMPANY in the Manchester area manu-
facturing nationally advertised products have a
vacancy for a Chemist to undertake research
and general laboratory work on protective skin
creams and ointments. Applications, which
will be treated in the strictest confidence, are
invited from men or women with a B.Sc., or
Ph.C. qualification, who are aged approximately
25 to 35. There is a non-contributory
pension scheme, and the company work a
5-day week. Box C 2030.

A VACANCY OCCURS in a well-known
ethical house for a keen ambitious man with
personality to take over the position of Medi-
cal Representative on their Hampshire terri-
tory. This area is an established one and offers
scope for advancement. Previous experience or
a qualification is not essential but applicants
must have a sound technical background and
preferably be a car owner. The position is a
pensionable one and remuneration is by way of
salary, commission and expenses. Write in
complete confidence to Box C 7914.

ASEPTIC LABORATORY SUPERVISOR
(female) required by established manufacturers
in their new factory North West London.
Must be able to take full charge of staff en-
gaged on filling/packing ampoules and sterile
solutions. Apply Box C 7935.

ASSISTANT to export manager required by well-
known pharmaceutical manufacturers. Ap-
plicants, who should be below 25, must show
genuine enthusiasm for a career in export
marketing. Reply, giving full details of ex-
perience, to Export Manager, Box C 7954.

ASSISTANT CHEMIST REQUIRED by well-
established company near London manufac-
turing toilet products. Degree not necessary but good
practical experience in routine quality control
of raw materials and ability to supervise full-
scale manufacture essential. Write in first in-
stance giving fullest details of education, ex-
perience and salary required to Box C 2021.

BAYER PRODUCTS, LTD., require a young
pharmacist for a position in their sales depart-
ment at Kingston-on-Thames. The post offers
good prospects for a man who would like to
make a career for himself in the pharmaceutical
industry. Applications in confidence to Sales
Director, Bayer Products, Ltd., Neville House,
Eden Street, Kingston-on-Thames, Surrey.
C 7940

BRITISH MANUFACTURERS of first-qual-
ity, competitively priced, hand-made thermo-
meters, require representatives in most areas
calling on chemists, hospitals, co-operative,
departmental and drug stores; generous com-
mission terms with exclusive territory. Box
C 7953.

CHEMICAL ENGINEER REQUIRED

As the result of a rapid expansion pro-
gramme, a well-known pharmaceutical
manufacturing company has a vacancy for a
suitably qualified man as PRODUCTION
ENGINEER at their North London factory.
Applicants should possess a University
degree or equivalent with a good
knowledge of chemical or mechanical engi-
neering and have had experience in the
control and organisation of manufacturing
procedures and mechanised packaging.
The salary paid will be commensurate with
qualifications and experience. Apply Box
C 7944.

CHEMICAL MANUFACTURERS near Lon-
don have vacancies in the department engaged
in formulation and development of ethical pro-
ducts. This work is likely to appeal to young
pharmacists seeking to make a career in manu-
facturing pharmacy. Salary will be of the order
of £600 and upwards, according to qualifica-
tions and experience, with prospects of advance-
ment. Five-day week. Apply initially in writing,
giving full details, to Box C 7942.

EVANS MEDICAL SUPPLIES, LTD., Ruis-
lip, have vacancies for medical representatives,
Kent and East Sussex. Apply General Man-
ager, stating age, experience, etc. C 7958

**GLAXO LABORATORIES, LTD.
MEDICAL REPRESENTATIVE**

Some further appointments will shortly be
made to our Representative staff in the
United Kingdom. Applications are invited
from Pharmacists age preferably between
25 and 35 who are interested in represent-
ing a pharmaceutical firm of repute. Previous
experience of representation is not
necessary as training is given but a good
technical background in pharmacy and
knowledge of sound business methods is
important. The positions offer opportunity
for progress and the development of initiative.
Salaries are designed to recognise
merit and a pension scheme is in force.
Candidates should send full information
of education and business experience together
with the usual personal details including
height and if possible a recent
photograph to Senior Personnel Officer,
Glaxo Laboratories, Ltd., Greenford,
Middlesex. C 7911

KLEENEX TISSUE HANDKERCHIEFS. Ap-
plications are invited from young sales repre-
sentatives. They should possess good person-
ality, above-average ability and enthusiasm.
The territories in which immediate appoint-
ments will be made are: (1) Scotland, North
of the Tay; (2) W. Lancs and Cheshire; (3)
Northumberland and Durham; (4) E. Mid-
lands; (5) Bucks, Beds and Northants; (6) S.
Wales; (7) E. London and Essex. Excellent
opportunities provided for personal advance-
ment. Applicants should reside within the
territory and preferably be car owners. An
established connection among retail chemists
and co-ops an advantage. All positions carry a
generous salary together with out-of-pocket ex-
penses. Apply in confidence giving full details
to Sales Manager, Cellucotton Products, Ltd.,
Carkens Lane, Highgate Road, London, N.W.5.
C 7913

RIKER

Riker Laboratories Limited invite applications from pharmacists for the post of Medical Representative for Northern Scotland.

Previous experience in medical representation is not necessary as full training will be given. Remuneration is by salary, bonus, expenses and a new car will be provided. There is a company pension scheme in operation.

Apply in writing to the Managing Director, Morley Street, Loughborough.

C 7922

**TABLETING DEPARTMENT
MANAGER**

An opportunity presents itself for an experienced tablet maker to take charge of a tablet manufacturing department in the Midlands works of a well-known pharmaceutical house. A first-class man is required with administrative ability and wide experience of formulation. A generous salary and bonus will be paid and the company operates a pension scheme and a five-day week. Apply with full details to Box C 7963.

Situations Open—Continued

BACTERIOLOGIST with university degree wanted to take charge of laboratory producing veterinary sera and vaccines. Must be experienced in laboratory techniques and have had at least two years' practical experience. Knowledge of veterinary work an advantage but not essential. Box C 7941.

J. R. GIBBS, LTD., Wholesale Chemists, require experienced supervisor for their Bristol Communications Office. Applicants should have a comprehensive knowledge of modern medical specialities and requirements of general pharmacy. Living accommodation available. State full particulars of experience, age and salary required by letter to the Secretary, J. R. Gibbs, Ltd., Manor Avenue, Paignton, C 2020.

LONDON MANUFACTURING CHEMISTS wish to appoint a male assistant between the ages of 20 and 30 years for engagement in their manufacturing processes. Man with experience of factory work essential. Apply with full particulars of age, experience, salary required to Box C 204.

MANUFACTURERS of well-known proprietarys and medicated confectionery in process of expanding, require keen, enterprising men with above-average personality and ability as sole agents or representatives. Territories available:—(a) London, (b) Surrey, Sussex and Hampshire, (c) West Country, (d) Yorkshire, Northumberland and Durham. The areas are not fully established and therefore provide great scope with superbly presented products of exceptional appeal. Applicants should be car owners with strong connections. Consideration given to those desiring joint representation with their present House. Remuneration will be designed to recognise merit. Very fullest details required in confidence prior to interview. Replies to Sales Director, Box C 2042.

MEDICAL REPRESENTATIVE

Genatosan, Ltd., a member of the Fison Group, require the services of a further Medical Representative to cover general practitioners, hospital medical officers, etc., in the Glasgow area. This vacancy arises through expansion and some consequent re-organisation of this territory. The person appointed will be expected to reside in Glasgow. This is a well remunerated post with incentives and good prospects for a keen and energetic man, possessing the ability and desire to make a success of this specialised work. Full personal details, with summary of attainments and experience, should be addressed to: The Personnel Officer, Genatosan, Ltd., Loughborough, Leicestershire. Please quote reference "S/MED.2." C 7925

MEDICAL REPRESENTATIVE required, commencing February 1, age 25-35, for Birmingham and for Cambridge, Herts, Beds, and E. Anglia. The work involves the discussion of ethical specialities with doctors and pharmacists. The successful candidates will receive a course of training; but a good background of pharmaceutical or medical knowledge and previous experience would be an advantage. Residence on territory and driving ability essential. Remuneration by salary, full expenses, no commission; contributory pension scheme. Apply giving full details in own handwriting to: Medical Representation, Menley & James, Ltd., Coldharbour Lane, London, S.E.5. C 7910.

S.E. LONDON manufacturing chemists have vacancies in their manufacturing laboratory for process workers. Five-day week. Canteen facilities. Apply Box C 7943.

PHILLIPS YEAST PRODUCTS, LIMITED, invite applications for representatives in Wales for well-established and nationally advertised pharmaceutical and veterinary preparations sold through chemists, pet stores, Salary, expenses, car provided, pension scheme. Applicants should be under 30 years of age and with live connections. Reply in writing, Park Royal Road, London, N.W.10. C 7952

MEDICAL REPRESENTATIVES required immediately by Lederle Laboratories for the following areas:—(1) Manchester; (2) North Riding, Yorkshire. Applicants should be men of striking personality and initiative, should be 25-35 and have a pharmaceutical qualification or experience with an ethical house of detail work among doctors and hospitals. Congenial, well-paid posts backed by outstanding products and first-class promotional material. Liberal expenses, company car supplied. Full details in writing to Sales Manager, Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, London, W.C.2. C 202

MEDICAL REPRESENTATIVES

Further expansion of the medical sales force of Genatosan, Ltd., a member of the Fison Group, provides opportunities for Medical Representatives to cover general practitioners, hospital medical officers, etc., in the following areas: (a) part of North London; (b) Hampshire, Berkshire and Oxfordshire. Representatives will be expected to reside on their territory and, in the case of (b), in the southern part of the area. These are well remunerated posts with incentives and good prospects for keen and energetic men possessing the ability and desire to make a success of this specialised work. Full personal details, with summary of attainments and experience, should be addressed to: The Personnel Officer, Genatosan, Ltd., Loughborough, Leicestershire. Please quote reference "S/MED.1." C 7926

REPRESENTATIVE. Small drug house requires an experienced man with pharmaceutical background to sell drugs and galenicals. Existing territory (S.E. Lanes) needs full exploitation and expansion. Salary, expenses and liberal commission can be earned by a man with sales ability. Apply Box C 2019.

SALES PROMOTION MANAGER required by manufacturers of world-famous cosmetics. Salary in the region of £3,000. Only those who can prove a successful record in a managerial capacity need apply. Write stating previous experience and full details to Box R. 824, c/o Streets, 110 Old Broad Street, E.C.2. C 7924

SALES MANAGER WANTED. This company, established in the international proprietary pharmaceutical and toilet goods fields, seeks a capable business executive as sales manager. Opportunity for man about 33-47 having sound successful record in the industry. Applicants must possess experience of the introduction, advertising, marketing and selling of proprietarys. A knowledge of the ethical and overseas fields would help. Unlimited opportunity for man of real ability to share in results of energetic, successful work. Write fully, in confidence, to Governing Director, Cooltan Laboratories, Thames St., Hampton, Middlesex. C 7928

SOUTH WALES. Part-time representative required to travel this area on good commission basis for nationally advertised hair beauty preparations selling to wholesale and retail chemists, stores and hairdressers. Established connection with excellent prospects for first-class man able and willing to promote existing business. Apply in confidence to Sales Manager, Box C 2025.

CHEMIST-PRODUCTION TECHNICIAN
Sun Island Chemicals, Ltd., 19 Thames St., Hampton, Middlesex, needs capable works chemist fully experienced in the pharmaceutical, toilet goods and allied proprietary fields. Knowledge of tab'cting, vitamins and emulsions essential. This established company has excellent growth potential and a good opportunity exists for a top-calibre man. (Room also for an assistant.) Write details of age, experience, present salary, etc., to Governing Director. C 7927

REPRESENTATIVE for prominent manufacturing and wholesale chemists in veterinary field. Calling on qualified veterinary profession only. To take over sound connection in Southern and Western Counties, with good prospects of further development. Car provided, good Salary and quarterly turnover Bonus. Usual Expenses. Give fullest personal details, including age and experience, etc., in confidence. Box C 7929.

SMALL pharmaceutical works require experienced man to take charge of factory and packing. Box C 7920.

STAFFORD ALLEN & SONS, LTD., require a sales executive for their essential oil department. Responsible and progressive position. Applicants must have initiative. Training will be given where necessary. Write stating age, experience, etc., to the Secretary, 20/42 Wharf Road, London, N.1. C 7936

THE CHEMISTS FEDERATION is desirous of increasing its representative staff and invites applications for an assistant in the development of the work of the Federation. Applicants should be about thirty years of age, of good education, with some experience in retail pharmacy. The work will involve travelling throughout Great Britain. Full details to: Secretary, Chemists Federation, 4 Queen Square, London, W.C.1. C 7955

YOUNG MAN required as assistant to the Manager, Home Sales Department. Should have pharmaceutical qualification. Salary range £700-£800 p.a. Apply in writing, stating experience, Ref. HAC, The British Drug Houses, Ltd., Graham Street, London, N.1. C 205

WHOLESALE (OVERSEAS)

FISONS CHEMICALS (EXPORT), LTD. have vacancies for overseas representatives promoting sales of medical, pharmaceutical and chemical products of the Fison Group. Tours last from 6-9 months a year. A chemical educational background is essential and a knowledge of languages an advantage. Applications to Personnel Officer (DA), Fisons, Ltd., Harvest House, Felixstowe, Suffolk. C 7930

PROGRESSIVE pharmaceutical firm in healthy British Colony requires immediately, alert, single young man as qualified assistant (M.P.S.). Knowledge of optics an advantage. Post offers excellent opportunities for advancement. Salary for first term of service (four years) including cost-of-living allowance £110 (approx.) per month, rising by annual increments to £119 (approx.) per month, Passage paid out and home. Annual local leave and six months home leave on full basic pay after tour of four years. Apply with all particulars to Ayrton, Saunders & Co., Ltd., Hanover Street, Liverpool. C 7932

CLERICAL

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

SECRETARY SHORTHAND/TYPIST, export experience preferred, as assistant to general manager, manufacturing chemists, N.W. London. Good at figures. Interesting and progressive post for right applicant. Apply, giving full details and salary required. Box C 2018.



IMPORTANT

Box Office numbers are intended exclusively for specific answers to particular advertisements. Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.

Clerical—Continued

SHORTHAND TYPIST, secretarial duties, required for office of chief chemist, 5-day week, Pension scheme. Apply in writing to Stafford Allen & Sons, Ltd., 20/24 Wharf Road, London, N.1, Reference J/M. C 7945

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.
Box 1/-

RETAIL (HOME)

LADY DISPENSER (Hall certificate), well experienced, seeks post, preferably part-time, Southampton area. Box C 2006.

WHOLESALE

ASSISTANT ACCOUNTANT, aged 33, seeks permanent position, experienced, full set of books to T/B, sales office management, sales records and statistics. Write Box C 2032.

BACKGROUND COUNTS. A man with over 20 years' experience in the manufacture of galenicals, pharmaceuticals and cosmetics, seeks a situation. Able to control staff, devise processes and if necessary conduct analysis and pH. Also some experience of pill and tablet manufacture. Box C 2026.

CHEMICAL EXECUTIVE with fifteen years' experience import export seeks change. Extensive connections with suppliers and customers throughout the world. Available February. Box C 2022.

EXPERIENCED REPRESENTATIVE with first-class chemist and hairdressers connection throughout Lancashire and Cheshire, requires extra lines on commission. Own car. Excellent references. Box C 2023.

NORTHERN IRELAND representative. Well introduced in this area. Free to accept direct representation with reliable firm. Box 4522, Eason Advertising Service, Belfast. C 7938

PROCESS WORKER with technical training and sound experience requires situation. Experienced in handling staff. Box C 2027.

WELL-KNOWN Medical Representative desires a change. At present with well-known ethical house, same territory for 15 years, part Hants, Kent, and Sussex, resident Brighton area. Can be free in one month. Apply Box C 2040.

BUSINESS OPPORTUNITIES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

CEREAL FOOD MANUFACTURERS in full production have additional facilities for the drying, processing, mixing and packing of infant, invalid, and health foods, cereal bases, fillers, etc., in their modern factory with up-to-date plant. Enquiries to Ridge's, 152 Boleyn Road, London, N.16. Cissold 2131. C 2005

MANUFACTURERS of unique proprietary product wish to contact distributors/wholesalers able to undertake sole distribution. Details in confidence. Box C 2031.

STRIP PACKED ASPIRIN TABLETS, B.P., 5 gr. Inquiries solicited. The Dales Tablet Makers, Ltd., Steeton, Yorkshire. C 185

RIKER LABORATORIES, LTD.

PRODUCTION PLANNING SECTION

A vacancy arises for an experienced man to take charge of a new Production Planning Unit and Buying Section. The position offers excellent prospects and considerable scope for initiative. The commencing salary will be £700-£900 per annum, according to age and experience. A pension scheme and five-day week are applicable and a bonus scheme is in operation. Applications with full details should be forwarded to the Production Manager, Riker Laboratories Limited, Morley Street, Loughborough, Leics.

C 7922

LONDON WAREHOUSE and delivery services available. Daily deliveries of goods in London and surrounding districts. Office and telephone services if required. Alternatively, part of premises could be let as ideal London office/warehouse. Centrally situated for callers. Fourplast Co., Ltd., 127 Blackfriars Road, London, S.E.1. Waterloo 3683. C 2033

GLASS JARS, square shaped, 8-oz. size, unused, £5 per thousand. Mixing machine, U-shaped, 36 in. x 14 in. x 12 in., stainless, for liquids or powder, unused, £85. Laboratory glass tubing, 38 in. x $\frac{1}{4}$ in., cases of 210 tubes, £5. Battley & Co., Gorsey Works, Stockport. C 2028

MODERN CHEMIST SHOPFITTINGS, drug ranges, wallcases and frameless sliding doors, display counters and showcases; all types of window fittings and display stands. D. Matthews & Son, Ltd., Complete Chemist Shop Fitters and Shop Front Builders, 14/16 Manchester Street, Liverpool. C 141

AGENCIES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

MANUFACTURERS of nationally advertised commodity stocked by chemists, ironmongers and stores have vacancy for commission agent for Surrey, Sussex, Kent. Must be well introduced retail and wholesale. Car essential. Existing accounts handed over. Write, giving details other lines carried, frequency of calls, etc. Box C 7939.

AGENCIES WANTED

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

PAKISTAN. Wanted, agencies for drugs, medicines, chemicals, packing material and allied products. Write Western Trades Co., 38 Lakshmi Buildings, Karachi. C 1978

MISCELLANEOUS SALES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

2½ TONS GLYCERINE B.P. Prompt ex store London. Best offers. Box C 7921.

ALL AT 1/- LB. 56 lbs. each, spermaceti, cetyl alcohol, stearic acid, 80 lbs., lanoline B.P., methyl salic, (20 lbs.), gelatine crystals (35 lbs.), flowers camphor (15 lbs.), also offers for 100 lbs. naphthalene, 15 lbs. bismuth carb., 3 cwt. boric acid powder. Piddle, Brimscombe, Stroud. C 2036

APPROXIMATELY 160 gross 100-oz. narrow mouth winchesters for corks, washed, assorted green and white, for disposal. 25/6d. gross.

Packing and collection from Manchester warehouse to be arranged by buyer. Cash sale. James Woolley Sons & Co., Ltd., Victoria Bridge, Manchester, 3. C 2044

EXTRA SPECIAL BARGAINS: 1,000 gross new oval brilliantine bottles, screw neck, 1½-ounce capacity, 12/6d. per gross; 400 gross new flat toilet bottles, screw neck, 4½-ounce capacity, 16/6d. per gross; 200 gross new blue toilet cream pots, screw neck, 2-ounce capacity, 24/- gross; 100 gross 32-ounce U.G.B. powder rounds, screw neck, 36/- gross; 200 gross 6-ounce screw neck powder rounds, 24/- gross; 1,000 gross new round pill bottles, screw neck, 7/6d. gross; 1,000 gross 4½-ounce round screw neck pill bottles, 5/- gross; 1,000 gross No. 1 oval tablet bottles, screw neck, 5/- gross; 1,500 gross new 1-ounce blue cork mouth powder rounds, 5/6d. gross; 10,000 gross new screw caps, all at 2/6d. per gross, 70 mm., 58 mm., 51 mm., 34½ mm., 27½ mm., 26½ mm., 23½ mm., 20 mm., and many other sizes. Call, or send for samples. Quality Containers, Ltd., 17a Balte Street, nr. King's Cross Station, London, N.1. Telephone: Terminus 2/71. C 2043

WANTED

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair price for spot cash. We are buyers of merchandise of **EVERY DESCRIPTION**. Clearance Stocks, Discontinued lines, Surplus and Redundant Stocks. Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3. C 153

MEDICAL BOTTLES, tablet bottles, closures and all types of packaging materials purchased, no quantity too large. Samples and full details to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon Street, E.C.4. Mansion House 3951-2. C 178

WANTED secondhand by user, cream and liquid filling machines, triple roller mill cream mixers, homogeniser, emulsifier or colloidal mill. State fullest particulars, first-class condition necessary. Apply Box C 2029.

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020, 7692. C 140

SALES BY AUCTION

18/- per half-inch (min.) and pro rata.
Box 2/-

B. NORMAN & SON (Est. 130 years), 2/5 Little Britain (close to G.P.O.), London, E.C.1, will sell by auction on Wednesday, January 19, at 1.30 p.m., well-made and practically new light oak and other shop equipment including drug runs, nests of drawers, mirror lined and other wall cases, some 50 metal-framed and other plate-glass counters (all by Sage), tallboy centre showcases, cash tills, mirrors, window fittings and glass shelves, office desks, typewriters, electric fittings, etc. View day prior. Catalogues (3d. by post) on application. C 7934

MISCELLANEOUS

SHOWCASES, SHOWCASES, SHOWCASES. Latest designs. All sizes including glass counters. Free delivery. Write for details to (Dept. "P"), Vandome & Hart, Ltd., Wenlock Rd., London, N.1 (Established 1660). Showrooms, High St., Kingston-on-Thames. C 196

When sedatives are needed...



BROMIDES are used as sedatives, for insomnia and sea-sickness, and in cases of epilepsy. They are also used in the production of photographic materials. Whiffens are renowned for their potassium, sodium, ammonium, calcium bromides and other bromine compounds.

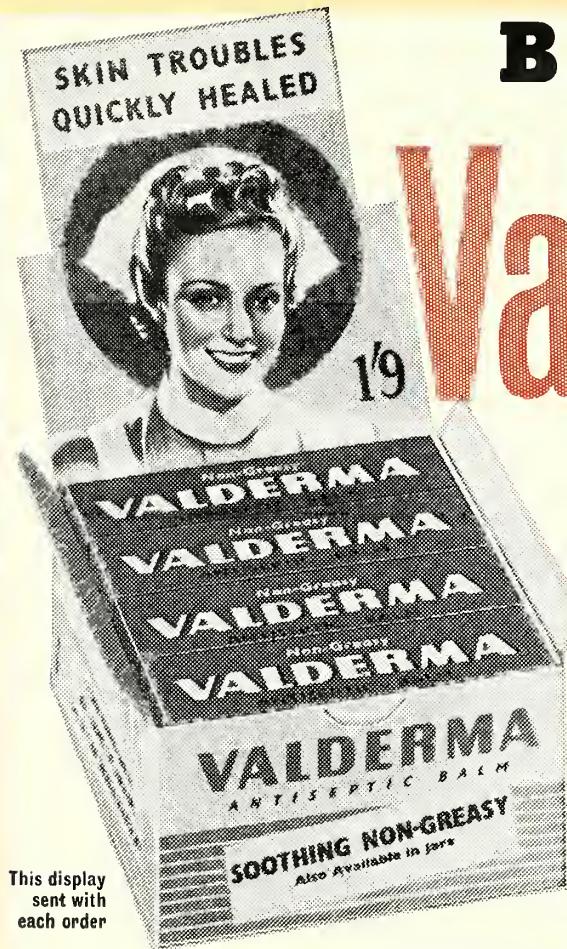


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of fine chemicals
for more than 100 years**

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Valderma

TUBES



This display sent with each order

And don't forget the parcel terms are:— On orders value £3.10.0 to £7.0.0 there is a display discount of 5%. On orders value £7.0.0 and over a display discount of 7½%. These parcels can include all sizes of Valderma jars, the New Valderma Antiseptic Soap, Valopto and Valpeda.

Valderma 1/9 tubes 13/- per doz.
 Valderma 2/6 tubes 18/4 per doz.
 Valderma 2/3 jars 16/8 per doz.
 Valderma 3/9 jars 27/3 per doz.

Valderma 5/6 jars 38/9 per doz.
 Valderma Soap 1/3, 10/- per doz.
 Valopto 2/6, 17/8 per doz.
 Valpeda 2/1½, 15/- per doz.

ALL PRICES EXCLUSIVE OF PURCHASE TAX

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Dae Health Laboratories Ltd., 17 Berners Street, London, W.1.

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1955